RAJASTHAN UNIVERSITY LIBRARY

	DATE	LABEL		
Call No. D2.2	367	(AC) E5 -	_ Date of 1	Palansa
Acen. No. 805	841		for le	
This book s before the date in		•	o the libra	ry on or
, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•	
ala da -			·· · · · · · · · · · · · · · · · · · ·	***************************************
and the second s				hadridadelika k
1		- -		
and a grant of the same of the				· · · · · · · · · · · · · · · · · · ·
R.U.P.—U.L.(525)—	10.000			******

PUBLIC WORKS DEPARTMENT, PUNJAB. IRRIGATION BRANCH.

ADMINISTRATION REPORT

FOR

1915-1916.

Agents for the sale of this Report.

IN ENGLAND.

MESSES. CONSTABLE & Co., 10, Orange Street, Leicester Square, W. C.

MESSES. P. S. KINO & SON, 2 and 4, Great Smith Street, Westminster, S. W.

MESSIS. KEOAN PAUL, TRENOH, TRUBNER & Co., 68-74. Carter Lane, E. C., 25, Museum Street, London, W. C.

MB. B. QUARITCH, 15, 11, Grafton Street, New Bond Street, W.

MESSRS. DEIORTON BELL & Co., Limited Cambridge.

MR. B. H. BLACKWELL, 50 and 51, Broad Street, Oxford.

MESSES. HENRY S. KINO & Co., 65, Cornhill, E. C.

MESARS. GRINDLAY & Co., 54, Parliament Street, S. W

Mn. T. Fisher Unwin, No. 1, Adelphi Terrace, London, W. C

Mrsses. W. Thacker & Co., 2, Creed Inne, London, E. C.

MESSES. LUSAC & Co., 46. Great Russell Street, London, W C.

Messes, Olivee and Boyd, Tweeddale Court, Edinburgh.

MEGRE. E. PONSONBY, LIMITED, 116, Grafton Street, Dublin.

ON THE CONTINENT.

Me. Ennest Lenoux, 28, Ruo Bonaparte, Paris. Me. Mantinus Nijnorr, The Hague.

IN INDIA.

Musses. Thacker, Spink & Co., Calcutta and Simla.

Messes. Newman & Co., Colcutta.

MESSES. R. CAMBRAY & Co., Calcutta.

MESSES. S. K. LAHIRI & Co., Calcuita.

Mysens. B. Bannenne & Co., Calcutta.

THE CALCUTTA SOROOL BOOK & USEFUL LITERATURE SOCIETY of 1, Wellington Square, Calcutta.

MESSES. BUTTERWORTH & Co., Limitel, Calcutta.

THE WELDON LIBRARY of 18/5, Chowringhee Roads, Calcutta.

MESSES. M. C. SIROAR & SONS, 75, Harrison Road, Calcuita.

MESSES. THAOKER & Co., Bombay.

MESSES. A. J. COMBRIDGE & Co., Bombay.

· MESSRE. D. B. TARAPORRYALA & Sons, Bombay.

MRS. RADHABAT ATMARAM SACOON, Bombay.

MESSES. RAM CHANDEL GOVIND & Son, Booksellers and Publishers, Kalbadevi, Bombay.

Mr. Sunder Pandurance, Bombay.

MESSES. GOPAL NABATAN & Co., Bombay.

MESSES. HICOINBOTHAM & Co., Madras.

MESERS. V. KALTANARAM IYEE & Co., 189, Esphande Row, Madras.

MES-RS. NATESAN & Co., Madras.

MESSES. THOMPSON & Co., Madres.

MESSES. S. MURTHY & Co. Madras.

MESSES. TEMPLE & Co., Madras.

MESSES COSIBEIDGE & Co., Madras.

Messes. P. P. Bama Iyan & Co , Medres.

MESSRS. A. R. PILLAT & Co., Trivandram.

SUPERINTENDENT, AMERICAN BAPTIST MISSION PARSS, Rangoon.

Messes. A. Chand & Co., Imperial Book Depôt Office, Delhi.

Messes. Gulan Sinon & Sons, Musid-i-'Am Press, Inhore.

Lala Monan Lal, Punjab Inw Book Depôt, Inhore.

MANAGER, "The Aryan Printing, Publishing and Genoral Trading Co., Limitol," Labore.

MESSES. A. CHAND & Co., Agents, Lahore

BADU S. C. TALUEDAB, Proprietor, Students & Co., Cooch Behar.

PROPRIETOR, Newal Kishoro Press, Lucknow.

IN CEYLON.

Messrs. A. M. & J. Preousor.

ADMINISTRATION REPORT FOR THE YEAR 1915-16.

Part I

TABLE OF CONTENTS. Statements.

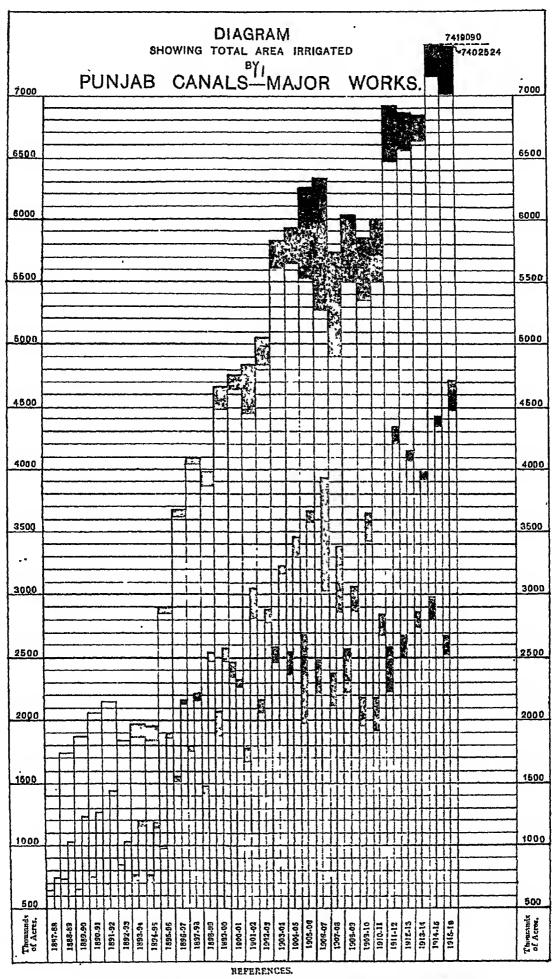
PAGE Statement showing area irrigated by Punjab Canals-Major and Minor Works-with diagram ii Statement showing area irrigated by Punjab Canals—Major Works—with diagram... iii Statement showing area irrigated by Punjab Canals-Minor Works-with diagram iv Statement showing financial results of Punjab Canals-Major Works ... ٧ Resolution by His Honour the Lieutenant-Governor of the Punjab and its Dependencies ... 1-7 Chief Engineer's Report. General 1-5 Western Jumna Canal ... 6 - 10Sirhind Canal 10-14 Upper Bari Doab Canal ... 15-17 Lower Bari Doab Canal ... 17-19 Upper Chenab Canal ... 19-21 Lower Chenab Canal ... 21 - 23*** Upper Jhelum Canal ... 24-25 Lower Jhelum Canal ... 25-28 Upper Sutlej Division, Inundation Canals 28-29 Sidhnai Canals (including the Koranga, Fazilshah and Abdul Hakim Subsidiary Canals) 29-30 ••• Indus Inundation Canals 30-32 ••• Shahpur (Imperial) Inundation Canals 33-34 Ghaggar Canals 34-37 *** Lower Sutlej Inundation Canals (including) Hajiwah Canal 37-39 Chènab Inundation Canals 39-40 Muzaffargarh Canals 40-42 Shahpur (Provincial) Inundation Canals 42-44 Ravi Inundation Canals... 44 Diagrams. · Diagrams showing Financial and Work-) ing Records, 1915-16, Western Jumna & Between pages 6-7 of the í.. *** Report Diagrams showing Financial and Working Records, 1915-16, Sirhind Canal... 12-13 27 Diagrams showing Financial and Working Records, 1915-16, Upper Bari Doab Canal... 16-17 Diagrams showing Financial and Working Records, 1915-16, Lower Chenab 22-23 Diagrams showing Financial and Working Records, 1915-16, Lower Jhelum Canal 26-27 32

				A	REA IRRIGATED,	IN, AGREE.
		YEAR.		Punjab Cana Major Work	Punjab Can Minor Wor	als, ks. Total.
1567-1888		•		-		_
1888-1889	•••	•••	••	1,422,775	918,32	8 2,341,103
1889-1890	11,	146	***	1,749,957	997,42	1
1890-1891	•••	•••	.**	1,868,456	994,710	1
1891-1892	***	***	***	2,083,500	982,950	- 1
1892-1893	***	***	***	2,141,302	1,019,151	
1593-1894	***	•••	•••	1.817,882	7,079,709	
1894-1895	***	•••	•••	1,003,654	958,661	2,862,318
1895-1896	***	•••	•••	1,955,858	1,063,296	2,919,154
1896-1897	•••	444	• •••	2,852,383	939,200	3 791,583
1697-1898	•••	•••	***	3,010,303	000,110	4,609,418
1698-1809	***	***	´	4,053,259	1,158,360	5,211,649
1699-1200	144	***	•••	8,972,501	081,26t	4,556,765
1900-1901	***	•••	•••	4,381,972	\$59,522	5,541,491
1901-1902	•••	•••		4,612,852	1,357,609	6,000,551
902-1903	•••	•••		4,491,838	081,521	5,172,859
1903-1904	***	•••		4,864,274	815,690	5,679,961
	104	•••	•••	5,610,787	779,547	6,870,384
904-1905	•••	***	•••	5,680,122	617,252	C,306,484
905-1906	***	•••	•••	6,163,369	751,067	6,911,436
906-1907	•••	***		5,902.995	803,317	6,703,812
007-1905	•••	P44		5,515,386	521,558	6,030,914
008-1909	•••	•••	•••	6,385,050	968,000	7,858,146
909-1910	•••	•••		0,117,004	909,607	7,086,611
010-1911	•••	•••	•••	0,270,757	P56,285	7,227,012
	•••	•••		7,469,615	862,217	8,831.892
	•••	•••		7,461,251	968,180	5,499,381
	•••	•••		7,351,721	971,748	
	144	•••		7,883,628	1,079,413	8,323,164 8,000,047
75-1916 .	••	•••		7,982,532	902,279	8,963,0 <u>41</u> 8,884.811

From 1894-1895 to 1905-1906 the total areas shown are net, thereafter the areas are

The areas include the Swat River Canal up to 1900-1901; after which date the canal was transferred to the North-West Frontier Province.

DIAGRAM SHOWING TOTAL AREA IRRIGATED PUNJAB CANALS-MAJOR AND MINOR WORKS. Thousands of Acres. 1903.04 1900-01 1901-02 1902-03 1873-94 1894-85 1855-96 1896-97 1893-99 1905-07 1905-07 1905-09 1908-09 1909-10 1911-12 1912-18 The black portions represent area remitted; the drain net areas, from the year 1893-94.



The areas irrigated annually are shown by the black line columns, the first sub-division of each annual column being the "Khani" area, coloured red, and the second the "Kahi" area, coloured blue.

The black portions represent area remitted; the drab, net areas, from the year 1893-94.

•		Area in	RIGATED, IN	AORES.	1
Year.		Kharif.	Rabi.	Total.	REMARKS.
1887-1888		615,816	776,929	1,422,775	Lower Chenab Canal opened.
1888-1889		715,632	1,034,325	1,749,957	
1889-1890		661,677	1,201,779	1,863,456	
1890-1891		1757,535	1,275,965	2,033,590	
1891-1892		697,454	1,446,938	2,141,392	Sirsa Branch of Westorn Jumus Canal opened.
1892-1893		323,235	1,024,647	1,847,882	Decrease due entirely to the favourable winter rains of 1892-93 which greatly contracted the irrigated rabi area.
1693-1894		711,001	1,192,653	1,903,651	Decrease as compared with 1891-92, due to general minfall in rabi 1893-94, and would have been greater but for new irrigation on Chenab Canal.
1891-1895		703,930	1,151,928	1,855,858	Decrease due to very favourable rainfall during rabi, particularly in Sirbind and Wostern Jumna Canal tracts.
1895-1896		£85,827	1,866,556	2,852,383	Increase chiefly due to partial failure of rains of 1895 and subsequent drought.
1896-1897,		1,534,969	2,114,334	3,619,303	Increase due to drought.
1897-1898		1,777,565	2,275,724	4,053,289	Increase due to favourable year for irriga- tion and extensions.
1898-1893		1,413,822	2,458,679	3,872,501	Decrease in kharif due to favourable state of rivers and scanty rainfall.
1899-1900		1,888,398	2,496,574	4,381,972	or more than bossey resident
1900-1901		2,351,174	2,268,678	4,612,852	
1901-1902		1,686,043	2,805,795	4,491,838	Lower Jholam Canal oponel:
1902-1903	•••	2,071,363	2 792,911	4,864,274	The Upper Sutle Innudation Canals were transferred from head "Miner Works" to "Major Works" from 1st April 1903.
1903-7904	***	2,150,739	3,160,048	5,610,787	The Indus Inundation Canals were transferred from head "Minor Works" to "Major Works" from 1st April 1903.
1904-1905	***	2,381,786	3,307,316	5,689,192	1000
1905-1906	•••	2,291,460	3,8:8,911	6,163,371	Decrease in khurif due to cotton failure.
1906-1907	•••	2,435,219	3,467,776	5,902,995	
1907-1908	•••	2,226,291	3,289,095	1	the rivers.
1908-1909	•••	2,695,518	3,689,532	6,385,050	
1909-1917	•••	2,285,870	3,831,134	1	}
1910-1911	***	2,254,333	4,016 424	6,270,757	·
1911-1912	•••	2,755,324	4,714,321	7,469,615	
1912-1913		2,929,309	4,531,912	7,461,251	Upper Chenab Canal opened.
1913-1914'	***	3,069,950	4,281,771	7,351,721	Lower Bari Doab Canal oponed.
1914-1915	•••	3,184,751	4,698,877	7,883,628	
1915-1916	•••	2,886,578	5,095,954	7,082,532	Upper Jhelum Canal opened. Useresse in klurif due to dronght and al normally low supplies in the rivers.

The areas include the Swat River Canal up to 1900-1901, after which date the canal was transferred to the North-West Frontier Province.

From 1894-95 to 1905-1906 the total areas shown are net; thereafter the areas are gross.

PUNJAB CANALS MINOR WORKS.

		AREAI	RRIGATED, 1	n Acres.	
Year,	•	Kharif.	Rabi.	Total.	Remarks.
1887-1888	···	505,093	413,233	918,323	
1888-1889	•••	571,558	425,870	997,428	
1889-1890	•••	542,112	452,593	994,710	
1890-1891	***	520,408	462,548	982,956	
1891-1892	٠	452,490	596,664	1,049,154	}
1892-1893	•••	491,151	588,558	7,079,709	Rivers rose late, but subsequent supplies were good, and rainfall was favourable, the result being the largest area on record up to date.
1893-1894 ·	•••	409,917	548,747	958,664	Decrease due to the destruction of kharif crops by high floods and to less favourable working of the canals.
1894-1893	•••	500,248	553,018	1,063,296	1.
1895-1896	•••	477,957	461,213	939,200	
1836-1897	•••	533,745	426,365	960,110	
1897-1699	444	E 65,582	592,778	1,158,350	
1898-1899	•••	453,402	530,862	981,264	
1899-1900	***	520,893	838,629	850,522	
1900-1901	•••	669,563	688,136	1,357,699	,
1901 1902	•••	508,416	573,105	981,521	
1902-1903 	•••	421,819	390,871	815,690	Decrease due chiefly to the transfer of the Upper Sutlej Inundation Canals from head "Minor Works" to "Major Works" from 1st April 1902.
1903-1904		316,418	463,129	770,517	Decrease due chicily to the transfer of the Indus Insudation Canals from head "Minor Works" to "Major Works" from 1st April 1903,
1901-1905		296,636	320,616	617,252	
1905-1906		298,279	452,788	751,067	
1906-1907		295,898	507,419	803 317	
1907-1903		255,074	266,494	524,558	
1908-1909	,	412,088	526,008	968,096	
1909-1910		426,020	513,587	969,607	
1910-1911		459,270	497,015	956,285	
1911-1912		402,641	459,606	862,217	1
1912-1913		467,957	500,173	¢68,130	
1913-1914	•••	464,872	506,871	971,743	
1914-1913		466,107	613,306	1,079,413	
1915-1916		352,607	539,672	902,279	Decrease due to drought and abnormally low supplies in the rivers.

The above includes the areas irrigated by the Shahpur Provincial Canals from 1890-1891

inclusivo.

The above includes the areas irrigated on Ghaggar Canals, British and Bikaner State.

From the year 1894-1895 to 1905-1906 the areas shown are net; thereafter the areas are gross.

DIAGRAM SHOWING TOTAL AREA IRRIGATED PUNJAB CANALS-MINOR WORKS. 1707.08 1908-07 1908-09 16:03:09 1913-14

REFERENCES.

... .

The first sub-division of each annual column denotes the "Kharif" area, coloured red, and the second the "Rabl" area, coloured blue.

The black portions represent area remitted ; the deab, net areas, from the year 1894-95.

PUNJAB CANALS, MAJOR WORKS.

•	Capital	Interest	Net rorenno	Accummu- lated profits		FOR THE	YEAR.	
YELB.	outlay, Direct and Indirect, to ond of year.	charges to	to end of year.	to ond of year (coinmn 4— column 3).	Gross revenue,	Working expenses.	Net rovonge.	Percentage on capital,
1	2	8	4	Б	6	7	8	8
	Rs.	Rs.	Rs.	Rs,	Rs.	Rs,	Rs.	Re.
1887-1888 .	. 5,76,25,828	3,18,40,784	5,09,85,681	1,90,8%,807	40,06,923	17,01,248	28,04,675	8.99
1888-1889	. Б,89,48,409	3,40,74,458	5,33,27,638),02,53,186	48,04,094	19,72,987	23,02,007	4.06
1889-1690	6,00,98,478	3,89,49,805	5,61,80,820	1,05,80,512	49,06,797	21,14,115	28,52,682	476
1890-1891	0,24,71,861	3,86,08,767	5,03,37,074	2,11,43,307	68,80,410	21,73,686	86,58,754	8.82
1891-1892	6,70,91,024	4,11,74,523	6,86,26,126	2,24,51,6.13	Sc,40,990	32,51,938	37,89,052	6 ·65
1692-1693	0.97,92,821	4,37,99,997	6,79,63,641	2,42,84,647	69,69,14P	24,61,631	43,57,518	6.24
Го́э3-1894 .	7,81,89,876	4,65,48,772	7,08,69,491	4,48,40,719	53,56,007	24,45,060	20,05,847	3.82
1894-1995	7,64,95,573	4,91,29,482	7,42,01,493	2,47,75,061	69,66,551	26,50,549	83,15,002	4.38
1595-1896	8,00,57,097	6,24,41,566	7,87,76,591	2,03,37,020	70,09,251	28,40,474	42,57,780	5.81
1896-1897	8,41,00,265	5,56,01,216	9,66,84,038	3,10,32,817	1,09,44,448	80,87,005	78,57,448	9.34
1897-1698	8,70,19,865	5,88,92,103	9,56,26,223	3,67,44,063	1,21,88,419	31,86,227	90,02,192	10-95
1895-1809	8,92,16,631	6,22,62,641	10,41,91,814	4,22,09,170	1,24,07,093	85,51,505	88,65,689	0.88
1699-1960	9,09,47,216	6,57,49,487	11,87,57,761	4,80,28,174	2,34,14,661	61,28,714	02,86,044	10:21
1900-1901	9,20,75,977	6,62,70,850	12,40,93,235	5,46,21,637	1,46,16,136	43,01,651	1,03,14,485	11.50
901-1062*	8,04,41,635	6,99,80,660	13,15,05,016	C,15,78,364	1,45,85,198	43,26,910	1,03,05,270	11.23
1902-1903	10,33,61,098	7,53,36,649	14,45,26,777	8,01,59,928	1,66,14,593	48,22,678	1,17,91,621	11.80
1908-1904	10,69,67,917	8,63,96,374	16,82,78,899	7,70,42,625	1,86,73,691	67,18,071	1,28,55,020	12:02
1904-1905 ,	10,87,68,816	8,41,50,907	17,16,51,245	8,71,81,938	1,96,10,593	62,38,247	1,83,72,346	12:20
1905-1906	11,01,61,719	8,56,84,692	18,37,47,798	9,51,11,100	1,83,36,568	65,00,266	1,17,46,802	10'66
1906-1907	11,11,16,550	9,23,01.017	19,79,51,611	10,56,47,764	2,21,75,797	60,78,097	1 51,97,700	13-08
907-1008	11,23,83,171	9,69,81,870	21,10,52,103	11,50,70,239	2,02,79,689	71,50,407	1,81,00,293	11:04
1909-390:	11,25,02,325	U,96,67,325	32,48,80,401	12,52,23,076	2,11,00,012	72,71,714	1,88,28,298	19:26
1909-1910	,, 11,53,18,778	10,33,19,741	23,03,61,134	18,60,41,803	2,23,99,978	70,19,245	1,44,80,783	12:78
010-1011	11,48,81,721	10,70,28,098	25,49,75,785	14,79,47,602	2,34,16,492	78,02,291	1,58,14,651	13.60
1911-1912	11,02,27,514	11,08,11,169	27,37,29,708	16,29,18,699	2,71,10,641	83,58,458	1,87,53,983	1678
1912-1913	14,62,09,761	11,86,74,857	20,78,41,160	17,91,60,812	8,37,03,880	86,81,029	2,41,11,401	16.48
1913-1914	16,77,87,610	13,58,50,785	32,37,69,670	19,84,18,835	3,47,39,517	88,11,016	2,59,28,501	16.45
1914-1016	17,17,18,716	18,11,06,094	34,90,07,686	21,79,01,583	8,45,62,445	98,24,449	2,52,87,996	14.70
1916-1916	21,69,51,484	14,40,61,281	37,28,65,054	22,86,01,678	3,45,89,801	1,09,81,516	2,36,69,288	10.80

*Excludes the agures relating to the heat River Canal, which new belongs to the North-West Frontier Province. The figures up to 1900-1901 include the figures of that canal.

The gross revenue in column 6 is that actually collected during the year and differs from the revenue as assessed on the area irrigated in the year.

GOVERNMENT OF THE PUNJAB

PUBLIC WORKS DEPARTMENT.

Irrigation Branch. No. 1218 R. I.

The 22nd Nov mber 1916.

Resolution by His Honour the Lieutenant-Governor of the Punjab and its Dependencies.

READ-

Administration Report by the Chief Engineer, Irrigation Works, Punjab, of the Canals in the Panjab for the year 1915-16.

Capital Oullay.

THE capital outlay (direct and indirec:) on Productive or Major Irrigation Works, in operation at the end of the year !915-16, was Rs. 23,24,13,967, including Rs. 1,54,62,483 contributed by Native States.

2. The Imperial expenditure incurred during the year was Rs. 48,20,389. Of this Rs. 41,18,752 were expended on the Triple Canal Project, viz., Rs. 12,44,031 on the Upper Chenab Canal, Rs. 9,30,981 on the Lower Bari Canal and Rs. 19,43,740 on the Upper Jhelum Canal On the other open canals the expenditure was comparatively small, except on the Upper Bari Doab and the Indus Inundation Canals. On the former 3½ lakhs were spent chiefly on the Hydro-electric Installation at Amritsar, remodelling the headworks at Madhopur and lining the Main Branch Lower with cement plastert. The large expenditure on the Indus Inundation Canals was incurred almost wholly on the scheme for giving a perennial supply of water for irrigation to the new Dera Ghazi Khan Municipality and the lowering of the bed of the head reach of the Manka Canal.

An expenditure of Rs. 97,000 was incurred on the Lower Chenab Canal mainly in connection with the measures for the prevention of water-logging.

3. On Minor Canals for which capital accounts are kept, vis., the Shahpur and the Ghaggar Canals, the capital outlay during the year, was only nominal. The expenditure up to date on these canals amounts to Rs. 8,77,485, which includes Rs. 2,85,442 contributed by the Bikaner State towards the cost of the Ghaggar Canals.

Nature of Seasons.

4. The climatic conditions for the kharif crop were unsatisfactory, Rain in February and March 1915 helped the early kharif sowings, but thereafter the crop received little or no assistance from rain. The monsoon was a marked failure Temperatures were abnormally high throughout the season. The dry weather caused a scarcity of fodder in the early kharif, particularly in the districts of Rohtak and Hissar and in Jind and Patiala States. The scanty monsoon kept river supplies low and the inundation canals drew less water than usual. The demand for canal water during the kharif season, was very keen, but on the perennial canals it was, on the whole, satisfactorily met as the river supplies, though lower than usual, were under complete control, and were judiciously distributed.

The kharif conditions were repeated in the rabi, early sowings were helped by moderate rainfall in September and October. The winter rains failed almost completely. Owing to this and the light snowfall in the hills, the river supplies were much lower than usual and the canal supply reached a minimum on all the rivers in the Province, the deficiency being most marked on the Western Jumna. At the same time the demand for water by the cultivaors was intense, and all the energy, skill and patience of the officers of the

Department were required to adjust an abnormally short supply to an exceptionally large demand. The Lieutenant-Governor has much pleasure in recording that the results were successful beyond all anticipation, for, though the number of waterings had to be considerably reduced, the careful and equitable distribution matured a fairly good crop on an exceptionally large area.

The year was free from widespread calamities. As usual in very dry hot weather, grass-hoppers and other insects did much damage to the crops on all the canals, and more especially on the newer ones. Boll-worm also damaged the cotton crops on the Lower Chenab and Lower Jhelum Canals where special remissions had to be given on that account. The quality of the wheat crop was, however, excellent and helped to make good the deficiency.

Areas irrigated. &c.

5. The areas irrigated and matured by works of all kinds compare as follows with the corresponding figures for the previous triennium and for the year 1914-15:—

Partioulars .					Average of the three years ending 1914-15	Doring 1914-15.	During 1915-16.
•					Acres,	Acres,	Acres,
I	mperia	l and Provi	ncial.				
Area irrigated		••	•••		8,050,459	8,119,886	8,237,836
Arer matured		•••		•••	7,657,893	8,067,258	7.805,703
	N	dive States.				•	
Area irrigated	••		•••		556,300 ;	543,155	616,925
Area matured	••	444	•••	***	552,637	510,507	613,281

Under Imperial and Provincial the area irrigated shows a decrease of 182,000 acres as compared with the year 1914-15, which was a record one The figures are, however, an improvement over the average of the previous triennium, the increase being due mainly to the development of irrigation on the Upper Chenab and Lower Bari Doab Canals.

Excluding the Triple Canals, however, the area irrigated during the year showed a drop of 38',290 acres as compared with the figures for the previous year, the innudation canals alone being responsible for about half of this shortage.

The shortage of 401,673* acres, as compared with 1914-15, in the area irrigated during kharif was due partly to the humper rabi crop of 1915, which took so long to harvest that it interfered with early kharif owings, and partly to the very unfavourable season caused by the failure of the monsoon. The prevalence of plague on the Western Junna and Sirhind Cavals also prevented sowings of early kharif. The decrease was naturally more marked on the inundation than on the perennial canals.

The rainfall in September and October encouraged the cultivators to put in extensive rabi sowings to make good the loss in the kharif; a large area sown by rainfall had later to be matured by the canals. The result was that the area irrigated showed an increase of 323,113 acres over the figures of the previous year.

Financial Results.

6. The financial results are based not on the areas irrigated in kharif 1915 and rabi 1916 but on the areas of rabi 1915 and kharif 1915, water dues on account of which were realized within the financial year (1915-16) The gross receipts from works of all kinds compare as follows with the figures for

the year 1914-15 and the two previous triennial periods ending 1911-12 and 1914-15:—

					THE THREE		<u> </u>
Partionlars.		•	1911-12.	1914-15.	During 1914-15.	Daring 191 5-16.	
	<u></u>	*		Its.	Re.	Rs.	Rs.
Imperio	il and	Provincial.	1	İ			
Major Works	•••	•••		2,13,09,361	3,40,31,764	3,45,62,445	3,45,89,804
Minor Works	•••	•••		17,47,219	18,57,540	19,51,230	18,86,557
		Total	,	2,6 ,56,583	3,59,89,301	3,65,13 695	3,64,76,361
Na	tire Sta	ites.				 -	
Major Works		•	1	17,17 265	25,21,876	22,85,777	24,88,903
Minor Works	•••	•••		23	8 :	!	1
		Total		17,1:,299	25,21,884	22,85,777	24,89,804

On the Major Works the gross revenue was the second largest on record, the highest being the year 1913-14. This very satisfactory result was due to the record rabi of 1915, the revenue on which was collected during the year under review.

The working expenses for the year were unusually high, and compare as below with the similar figures of the annual averages of the two previous trionnia and of the year 1914-15:—

				THIENSIAL PRI	HOD ENDING		
Particulars.			i	1911-12.	1914-15.	During 1914-15	During 1915-14.
Impéria! and Provincial,			;	R4.	Rs.	Rs.	Re.
Major Works	•••	•••	***	80,25,998	89,39,131	93,21,149	1,09,31,516
Minor Works	•••	***	{	10,43,544	9,51, 01	9,77,821	9,47,959
		Total	•••	90,69,512	08,00,132	1,03,01,270	1,18,79,475
. 2	Vative S	later.	!	\ \ !			
Major Works	•••	***	*** !	7 38,757	9,11,511	8,18,581	9,21,201
Minor Works	***	***		4,084	6,951	8,703	4,764
	,	Total		7,42,821	9,19,163	8,22,284	9,28,965

Much of the increase was incurred on the improvement of the right bank river defence work at Khanki on the Lower Chenab Canal, special repairs and staunching of banks on the Upper Chenah and Lower Bari Doab Canals, the up-keep of the Upper Jhelum Canal which was open for irrigation during the year, and on torrent-training works on the Sirhind Canal.

The net revenue for the year compares as follows with that of previous periods:—

		j	Teiennial pr	BIOD ENDING .	,	i ,	
Particul	Particulars.		1911-12.	1914-75.	During 1914-15.	During 1915-16.	
Imperial and	Provincial.		Rs.	Rs.	Rs.	Rs.	
Major Works	•••		1,62,83,866	2,50,92,638	2,52,37,996	2,36,58,288	
Percentage on Capital	144	.	14:19	· 15·49	14.70	19-90	
Minor Works	••		7,08,675	9,06,539	9,73,429	9,38,599	
	Total		1,69,87,041	2,59,99,172	2,62,11,425	2,45,96,836	
Native St				. •	-		
Major Works	•••		9,78,508	J6,10,365	14,67,196	15,64,102	
Percentage on Capital	•••		6·40	10.49	9 52	'10·1 2	
Minor Works	••	[- 4,041	6,943	3,703	- 4,773	
	Total		9,74,467	16,03,422	14,63,493	15,59,339	

Compared with 1914-15 and the triennial period ending 1914-15 the net revenue showed a falling off due partly to the decrease in the kharif irrigation already explained and partly to the increased expenditure under working expenses. Excluding the figures for the Triple Canals, the net revenue earned by the Major Irrigation Works amounted to Rs 2,39,08,167, which gives 20 per cent on the capital invested (Rs. 11,90,06,780). The interest charges for the year amounted to Rs. 72,47,023, and the net profit after paying interest charges is Rs. 1,64,21,265 or 7.56 per cent. on the total capital outlay.

The percentage of net revenue on capital outlay on the principal canals, was as follows:—

и		Canal.				Excluding interest charges.	Including interest charges.
Western Jumna	•••	***	•••			9-04	5.73
Sirhind	•••	•••	•••	•••		7-78	4.47
Upper Rari Doab	•••	•••	t	•••		15:29	11-97
Lower Bar: Doab	•••	•••	•••	•••		- 0:46	- 3:79
Upper Chenab	•••	•••	•••	***		0 53	 2 ·79
Lower Chenab	***	•••	•••	•••	\	39.78	36.40
Upper Jhelam	•••	•••	•••	•••		— 0.79	-4:12
Lower Jhelum	•••	•••	•••	•••		20-70	17:87
Upper Satlej Inandat	tion Canals	•••	•••	•••		. 18.50	15.23
Sidhnai	•••		201	•••		51 - 55	48:18
Indus Inundation Ca	nals	•••	•••	***		0-14	-344

As usual the Upper Bari Doab Canal, the Lower Chenab Canal, the Lower Jhelum Canal, the Sidhnai Canal and the Upper Sutlej Inundation Canals continued to show excellent results. But it should not be forgotten that the high percentages on colony canals are due to the fact that they

get a book credit for most of the land revenue and "malikana" in addition to the ordinary water rates. The disappointing results on the Indus Inundation Canals are mainly due to the fact that the heads of these canals have to be charged frequently and require heavy expenditure to maintain.

The working of the Triple Canals (Upper Jhelum, Upper Chenab and Lower Bari Doab) continued to show a deficit. Irrigation on this system has developed more slowly than was anticipated in the project owing to the unforeseen delay in the opening of the Upper Jhelum Canal. That canal has now been opened and a rapid expansion of firrigation is confidently expected within the next few years.

General Remarks.

7. The estimated value of the crops raised on all canals for the year under review is Rs. 27,50,82,336 against Rs. 27,76,29.480 for the previous year. This gives an average of Rs. 324 per aere matured. It may be noted that this calculation is based on the prices given in the Scason and Orop Report for 1915-16; these prices vary from year to year.

The length of channels in operation at the end of March 1916 was 18,800 miles viz., 4,332 miles of canals and branches and 14,474 miles of distributaries. Of these 128 miles of canal and branches and 144 miles of distributaries were opened during the year, mainly on the Triple Canal Project.

S. In the last year's review it was noticed that the Upper Chenab and Lower Bari Doab 'anals commenced irrigating in 1912-13 and 1913-14, respectively. This year the Upper Jhelum Canal, the final link of the Triple Canal Project, was opened for irrigation on the 7th Ootober 1915. Thus the year under review saw the completion of the great Triple Project, and the opening ceremony was performed at Mangla, the head-works of the Upper Jhelum Canal, on the 9th December 1915, by His Excellency Lord Hardinge of Penhurst, late Viceroy and Governor-General of India.

The completion of the Triple Project marks a new era in the history of the Punjab Irrigation, a history which, the Lieutenant Governor ventures to claim, is without parallel in any country for boldness of conception, success in execution, magnitude of results, and above all for the number of great Engineers whose technical skill, practical ability and devotion to duty have overcome all obstacles and combined to produce the 9 million acres of irrigation which is the most solid basis of the prosperity of the Punjab of to-day.

- 9. The general dislocation in the trade of the world which followed the outbreak of the war affected the agricultural conditions of the Punjab as of other parts of India. Owing to a drop in the export of cotton very low prices were realised for the crop of 1914, and this caused the area under that crop to fall from 1,069,676 acres in 1914 to 473,193 acres in 1915, i.e., by 56 per cent. This large decrease in cotton was partially compensated for by increase in maize, jowar and chari, and the high prices of food-grains generally compensated for the loss under cotton and caused an expansion of the area under wheat from 2,943,655 acres in 1914 to 3,041,248 in 1915.
- 10. In order to supplement the winter supplies of the Jhelum River for the use of the Triple and other canals, a project estimate for the construction of a barrage on the Woolar Lake Outfall was prepared by Mr. R. E. Purves, C.I.E., late Chief Eugineer, Irrigation Works, Punjab. It is now under consideration by the Government of India.

Another scheme to conserve the supplies of the Jhelum River is the construction of a storage reservoir on the Kahan Torrent near Rohtas, rainfall and other statistics for which are being collected, but the project, judging by the data so far collected, is not a promising one.

11. The supply of the Lower Bari Doab Canal having been satisfactorily arranged for by the transference of the surplus waters of the Jhelum through the Triple Canal Scheme, the waters of the Sutlej below its confluence with the Beas are available for the irrigation of the Sutlej Valley. Among other

schemes a project was prepared in 1913 for a weir 4 miles below the railway bridge at Ferozepore to serve two great canals. The right bank canal was to take up the irrigation now done by the Upper and Lower Sutlej Canals and provide new irrigation in the Nili Bar, while the left bank canal was to serve the areas now irrigated by the Bahawalpur Sutlej Inundation Canals and to command new areas in Ferozepore District and the Bikaner and Bahawalpur States. This project is now being modified in accordance with orders received from the Government of India, based on the recommendations of the Inspector-General of Irrigation who, last cold weather, made an extensive tour over the land covered by the left bank scheme. The Lieutenant-Governor hopes that the new project when worked out will be found acceptable both to the Bikaner and Bahawalpur States and form the basis of a final agreement.

- 12. The extension of irrigation in the arid and frequently famine-stricken districts of Hissar and Rohtak has been the aim of more than one project. The proposal to store the excess summer supply of the Jumna by a dam at Koch was held to be impracticable owing to the enormous cost of a dam at such an unfavourable site: whilst the alternative proposal to add to the supply in the Western Jumna Canal by means of a Sarda-Ganges Jumna Feeder from the United Provinces has come to nothing, as it is represented that the surplus water of the Sarda is required for use in the United Provinces. A third and more promising scheme is now being investigated, involving a dam about 300 feet high at Bhakra on the Sutlej River, some 40 miles above the site of the head-works of the Sirhind Canal. This project will probably entail a second weir on the Sutlej some miles below Phillaur and a considerable amount of remodelling of some of the existing channels of the Sirhind Canal, which will he linked up with the Sirsa Branch of the Western Jumna Canal with possible extensions to the Bikaner State and the unirrigated areas round about Sirsa. The Western Jumna Canal, being thus relieved by the addition of part of the Sirsa Branch to the Sirhind system, would be able to irrigate certain unirrigated tracts of Hissar and Rohtak, which are peculiarly liable to famine.
- 13. The large variations in the supply obtained from the Ravi by the Sidhnai Canal with the consequent high percentage of failed crops, and the insecurity of supply to the Multan series of inundation canals, led to the framing of the Haveli Project. The essential feature is a weir across the Chenab River just below its junction with the Thelum with canals on either bank. The canal on the right bank would take up new irrigation in the dry part of the Jhang District across the Chenab, finally tailing into the Karam Inundation Canal. The left bank canal would irrigate some of the unirrigated part of the Jhang District at the tail of the Lower Chenab Canal. But the upper part of this canal is a feeder principally, the major part of its supply being passed into the Ravi above the Sidhnai Weir to be used in the Sidhnai Canal and in the small inundation canals from the Chenab in the Multan District into which it tails. One of the main advantages of the scheme is to make the Sidhnai Canal independent of Ravi water, and so free the Lower Bari Doab Canal from its present obligation to pass beyond Balloki certain supplies which could be much more profitably utilised close at hand in Moutgomery than in the far distant Multan District.

Experience of conditions at Haveli, when the Triple Canals are working full, is required before it can be confidently said that the Sidhnai Canal will not require help occasionally from Ravi water in certain seasons, and the project is under further consideration.

14. During the year, owing to the lack of canal closures consequent on the very dry season, but little progress could be made with the lining of channels to limit loss by seepage and percolation. Financial stringency too precluded all works but those urgently necessary. Nevertheless, on the Lower Chenab Canal measures were taken for the prevention of water-logging by the drainage of the water-logged tract in the vicinity of the town of Hafizabad with most satisfactory results, and restored to cultivation about 7,000 acres of rice lands that have been swamps for many years. There is good reason to believe that

the improvement effected is permanent, and that the swamps will not recur even in years of very heavy rainfall; and the Lieutenant-Governor will be glad to see similar measures extended to other water-logged areas. Again, the Main Line Lower of the Upper Bari Doab Canal was lined with cement plaster.

15. The posts of Chief Engineer were held during the year under review by—

		From	To
Mr. F. E. Gwyther	•••	1st April 1915	16th September 1915.
Mr. T. R. J. Ward		1st April 1915	31st March 1916.
Mr. F. C. Rose		17th September 1915	3rd March 1916.
Mr. W. F. Holms		4th March 1916	31st March 1916.

Mr. Rose has been promoted to the post of Secretary to the Government of India in the Public Works Department after a service of 30 years in the Punjab, during which his technical skill, administrative capacity, sound judgment and tactful methods of dealing with men and measures accomplished much for the development of the great irrigation system in the Province. Mr. Ward will also within a few weeks be leaving the Province which he has served so long and so well on promotion to the post of Inspector-General of Irrigation in India, and the Lieutenant-Governor desires to place on record his appreciation of Mr. Ward's brilliant talents as an Irrigation Engineer which have helped to solve some of the most difficult problems of hydraulic enterprise and have won for him a reputation in his profession that is not confined to the Indian Empire.

The administration of the Province cannot but be the poorer for the loss of two such distinguished officers, but the Lieutenant-Governor finds some satisfaction in the fact that, though called away to fill the two highest offices in the Public Works Department, their experience and ability will still be available in the solution of the many great questions of canal irrigation which still await decision in the Punjab.

16. In conclusion the Lieutenant-Governor desires to thank the officers of the Department as a body for their single-minded devotion to duty during a year of unusual strain, and to congratulate them on the signal success of their efforts towards maintaining the prosperity of the Province in conditions of exceptional difficulty.

By order of His Honour the Lieutenant-Governor, W. F. HOLMS,

Secretary to Government, Punjab.

ADMINISTRATION REPORT

OF THE

CANALS IN THE PUNJAB

1915-16.

GENERAL.

1. The direct receipts and expenditure of the Irrigation Department during the year were as follows:—

•				Diet	CT EXPENDITE	RE.
Сил	ss of Worls.		Direct Receipt	Capital.	Working expenses.	Total.
			Rs.	Ra.	Rs.	Rs.
Major Irrigation	Imperial		2,37,97,173	46,61,222	1,03,43,170	1,50,07,392
Works,	Contributions	***	82,221	59 S54	5,05,854	5,67,708
Minor Irrigation	[Imporial	•••	8,88,000	19	8,59,101	8,59,123
Works.	Contributions	***		•	4,761	4,764
Provincial Cana	ils	•••	30,281		40,387	40,357
	GRAND TOTAL	•••	2,47,97,983	47,23,005	1,17,56,273	1,64,70,374
Average of t 1914-15.	he three years	ending	2,55,74,433	1,01,36,585	98,05,827	1,99,42,412

^{*}Biclades "refunds of resenue."

Indirect Revenue.

Land Revenue, etc., amounted to Rs. 1.17,60,597.

The average credit on this account of the three previous years amounts to Rs. 1,03,80,159.

3. The following table shows the areas irrigated by the several canals in 1915-16 as compared with the averages of the previous triennium:—

	previous tr.	remiiam								
Nam	Names of canals.									
Major I	rrigation Works.		· · · · ·	Acres.	Acres.					
	Imperial	s	•••	755,518	761,834					
Western Jumna Canal	Patiola State	***	•••	70,255	63,749					
(Imperial	•••	•••	893,812	927,059					
Sirhind Canal }	Patiala, Nabha and	Jind States		478,685	880,008					
Upper Bari Doah Canal	•••	•••		1,161,947	1,145,234					
Lower Bari Doab Canal	1 610	***	•••	* 131,391	253,291					
Upper Chenab Canal	***	•••	•••	164,051	325,062					
Lower Chenab Canal	444 444	•••	•••	2,266,005	2,284,079					
Lower Jhelum Canal	•6•	•••	•••	816,460	834,176					
Upper Satlej Canals	***	•••	•	353,066	272,746					
Sidhnai Canal		•••	• • •	278,544	270,150					
Indus Canals	***	•••	•••	239,595	235,641					
Total Major Irrigat	ion (Imperial	•••	***	7,060,389	7, 138,775					
Works.	(Native States	•••		548,940	643,757					
Minor Ir	rigation Works.									
	(Imperial	• • •	• • •	43,481	26,759					
Shahpur Inundation Canals .	·· {Provincial	•••	***	31,011	18,894					
	(Imperial	•••	•••	26,156	22,006					
Ghaggar Inundation Canals	Bikaner State	•••	•••	7,360	3,168					
Lower Sutlej Inundation Canals	(including Hajiwah	Canal)	•••	301,353	283,572					
Ohenab Inundation Canals	40 041	•••	•••	200,130	170,485					
Muzaffargarh Inundation Canal	S 410	***	,	379,916	877,395					
Ravi Inundation Canals (Provin		•••	•••	17,022	•••					
	(Imperial	***	•••	951,036	880,217					
Total Minor Irrigat		***	•••	48,033	18,894					
Works.	Native State	•••	•••	7,360	3,168					
	(Imporial	•••	•••	8,011,425	8,218,992					
Total Major and Mi	nor Provincial	•••	•••	48,033	18,894					
Irrigation Works.	(Native States	***	•••	556,300	646,925					
	GRIND	Total	•••	8,615,758	8 884,811					

^{*}Averege of two years only.

Financial Results.

4. The canals in the Punjab show the following results for 1915-16:—'

I.—Canals in operation classed as Productive.

Major Works.

						Rs.
Capital expenditure	(Direct chi	arges	•••		•••	46,64,222
during the year.	{ Indirect c	barges]		•••	1,56,167
•		T	otal		•••	48,20,389
. The capital invested t	o end of 191	5-16 am	ounte	l to	•••	21,69,51,484
Income from all source Working expenses les					***	3,45,89,804 1,09,31,516
Balance excess reve Rs. 21,69,51,484		10-90	per	cent.	on 	2,36,58,288
Interest-				•		
					Rs.	
Total Direct outla Less half outlay de			ß	21,07, 23,	41,711 32,111	
Mean Capital at el Interest on Rs. 20,84		·4725 pc	 r cent		09,600	72,37,023
Net profit after paying	ng interest in	1915-10	;		•••	1,64,21,265
Ditto	ditto ditto	1914-16 1913-1	j		•••	1,94,82,697 2,05,01,885

The carnings of the "9-Major Works" are shown in line 24 of the statement at pages 4 and 5.

II.—IMPERIAL CANALS, MINOR WORKS NOT CLASSED AS PRODUCTIVE.

No capital outlay was incurred during the year on those canals for which Capital and Revenue Accounts are kept, viz., Shahpur Imperial and Ghaggar Canals, except Rs. 19 incurred on the Ghaggar Canals. The total expenditure, on such canals to end of year 1915-16 was, therefore, Rs. 5,92,043—

The income fr	a all		t	s. 391)	Rs.
The income fr amounted to Working expense	***		•••	s. 001)	18,48,928 9,04,623
Balance profit in			•••		9,44,805
Ditto Ditto	1914-15 1913-14	•••	•••	•••	9,47,214. 9,07,411
		•••			

The financial results of each Minor Work are shown in the body of the report.

III.—Provincial Canals.

There are only two Provincial Canals in operation, viz., the Shahpur Provincial Canals and the Ravi Inundation Canals.

The income from	all sources /	ess rafands	(nel)	botanoma	Rs.
to	···		• (,	•••	37,629
Working expense	es less refunds	(nil)	•••	***	43,336
Balance profit in	1915-16	***	•••	***	-5,707
Ditto	1914-15	. • • •	•••	•••	26,215
Ditta	1913-14	***	***	444	35,054

						V 2000		CLASSED AS]	
Particulars,			Serial No.	Western Jumna Canal (including Fina Branch).	Sirbind Canal (Imperial).	Upper 'Bari Doab Canal.	Lower Bari Doab Conel,	Upper Clienab Chual	Lower Chenal- Canal,
	1 ,		2	3	4	б	6	7	8
I Canital (direct and in	direct) outlas	(1914-15	1	Rs. 1,76,75,876	Rs. 2,51,92,414	Rs. 2,15,23,315	^ Rs. 2,01,51,011	Rs. 3,82,57,562	R4. 3,17,00,058
L.—Capital (direct and indirect) outlay to { 1915-16			2	1,76,92,535	2,65,56,658	2,18,72,497	2,10,81,992	3,45,01,593	3,17,96,780
I.—Income realized during	-	(1914-15	3	30,15,615	38,91,584	89,46,701	4,91,360	6,21,064	84,95,508
Direct. viz., water rent and mis-{ cellancous receipts. { 1915-16			4	27,75,881	31,37,789	41,02,676	4,32,511	9,56,256	84,47,760
Indirect, viz., land			5	2,00,125	18,351	4,59,948	47,128	2,01,762	70,90,846
Irrigation Works, advantage rate,	, including we	1915-16	8	2 30,990	89,551	6,16,293	1,20,986	61.077	74,74,180
Total Direct and	Indirect	{ 1914 15	7	32,24,710	89,12,93S	43,99,619	5,38,488	5,23,826	1,55,86,354
, , , , , , , , , , , , , , , , , , , ,	{ 1915-10	8	30,00,351	32,27,310	47,18,96D	5,53,497	10,17,333	1,59,22,210	
III.—Charges (direct and indirect) for the year— Maintenance, including Establish- ment. [1915-16]		9	13,78,175	11,08,243	14,61,553	3,70,611	7,75,292	23,32,569	
		(1915-16	10	14,05,414	12,35,859	19,72,565	6,50,985	8,33,808	32,71,993
		(¹⁹¹⁴⁻¹⁵	11	6,88,990	8,19,057	7,26,137	0,67,319	11,05,183	10,73,969
		···{1915-16	12	6,83.986	6,11,273	7,27,855	7,72,171	11,45,572	10,76,007
ם .	Ntal	{ 1914-15	13	19,67,165	20,46,500	21,87,690	10,37,962	18,80,475	34,06,538
	.•	"" (1915-10	14	19,91,400	20,83,131	21,00,120	13,53,156	19,20,650	43,48,000
V.—Profit and Loss—	I Amount	, S 1914-15	15	12,57,575	18,66,638	2?,11,959	-4,99,474	-10,51,C49	1.21,79,816
(a) Including Interest		(1916-16	16	10,14,951	11,44,209	26,18,519	—7,99, 659	9,63,314	1.15,74,210
on Capital outley.	Percentage	on (1914-15	17	7:11	7 22	10 27	2:37	-3:17	:5:4 2
,	Capital lay.	ont- { (1915-16	18	5.73	4.57	11.97	-379	-2:79	36-40
ſ	ſ	(1914-15	19	16,37,410	26,96,311	21,85,118	1,20,716	-1,51,2?5	61,62,939
On Direct income	Amount	"' { 1915-10	20	13,69,917	16,98,931	27,30,111	-2,18,474	-1,02,445	5 1,75,767
On Direct income On fotal income On total income, Direct and Indirect.	Percentage	on (1914-15	21	9-26	10-38	11.22	0.22	-0:15	19:44
no test on	Capital las.	out- { 1915-16	22	7:74	7-13	12:13	-1'01	0.35	16:28
Inter	ſ	ر 1914·15	23	18,46,565	27,14,693	29,38,096	1,67,814	£0,533	1,52,53,785
in the state of th	Amount	{ 1915-16	24	18,00,937	10,88,482	33,16,401	-97,498	- 1,93,525	1,26,50,249
On total income, Direct and Income, direct.	Percentago	on (1914-15	25	10:44	10:65	13.65	. 083	015	41.81
	Capital	out- 1915-16	26	9 04	7-78	1K-20	-0.48	. 053	39-78

Major Wor	ke.			,		WORKS, NOT	ANGLE MINOR CCLASSED AS COTIVE.	Provincia	l Canals.	
Upper Jhrium Canal.	Lower Judun Canal.	Upper Sutlej (including Lower Solng and Para).	Sidbuai Caual.	Indus Iunudation Carals	Total Productive.	Works for which Capital and Revenue Accounts ere Lept.	Works for which only Revenue Accounts are kept.	Shahpur Provincial Canals,	Ravi Inundation Canals.	Serial No;
9	* 10	11	12	13	, 14	15	16	17	18 '	19.
Rs,	Rs.	R4,	Re	Rs.	Ra.	Re.	Ru.	Re.	Rs.	
4,01,17,370	1,50,51,492	18,06,779	13,37,927	28,22,282	21,21,31,095	5,92,021				
4,23,61,119	1,59,66,762	18,18,381	13,30,051	20 73,308	21,60,51,494	f,92 0 1 3	•••	•••	,,	
	28,02,282	3 98,913	5,42,515	1,76,281	2,43,87,692	1,05,731	8,17,111	49,600	1,379	
6,234	26,49,410	4,59 016	6,23,150	1,56,918	2.37,97.471	94,034	7,93,375	29,902	892	4
 	15,62,792	2,12,937	1,30,000	2 19 221	101,71,753	18 923	9,113,507	9,541	11,149	1
101	14,72 313	2,67,057	2,09,3.0	2,70 227	1,07,02,399	15 107	9,47,912	6,457	858	
	41,01,474	6.11,930	6,72,511	4,25,512	3,15,62,415	1,21051	17,55,019	69,160	12,529	-
6,231	41 21,783	7,44,103	8,32 779	4 37.175	a 45,99,003	1,09,741	17 32,187	36,359	1,270	1
	8 67,219	3,19,07,1	1,59,230	4,11,151	93 21,410	81,706	8,52 033	42,093	2,390	
3,43,150	8,17,570	4,00,708	1 45 592	4,11 593	l	68,000	8,15,723	40,953	2,393	, 1
13,23,57 1	5,14,513	59,573	45,197	BC,032	70,73,873		.,,	•••	1.1	1
14,11,009	5,47,CG1	59,138	44,508	97,913	72,37,023	•••	•••			1
13,23,574	14,32,062	407,919	2,03,427	5,10,183	1,61,03,322	81,305	8,52,032	42,083	2,380	1
11,11,009	113,55,620	4,69,146	1,91,130	5,89,497	1,81,68,530	86,900	615,723	40,953	2,393	1
-13,23,574	29,32,112	2,03,951	4 69,117	_SJ,491	1,91,60,123	•11.		N1		1
-17,46,925	27,63,263	2,76,957	6,41 319	1,02,322	1 63,21,265	•1,	.,,	٠		, I
-3:27	12:39	11 29	30-10	—3 00 °	8 56	***		•••		1
—1·12	17:37	15 23	45-18	-3 11	7 56	•••				1
	19,15,093	10,570	3,84,313	-2,37,870	1,50,61,413	24,425	34,041	6,525	-1,001	1
-3,35,016	18,31,551	69,333	4,76,858	-2,71 656	1,29,65,955	5,701	-2,98,192	11,051	-2,001	2
	12 01	2 70	25:43	-3 13	7 10	4:12			116	*
0.70	11:47	3 81	23 52	8 56	5 93	0 97			·	2
	:4,77,255	2,63,557	5,1 1,81 1	11,351	2,52,37,906	43,349	9,03 863	16,067	10,145	2
-3,35,016	38,03,921	3,35,395	6,86,167	-4,400	2,36,78,264	20,541	9,23,164	-4,591	-1,113	2
	21.80	13 59	85 61	0 40	11:80	7:32			`	2
~ 07n	20.70	18:50	61.65	0 14	1090	3 52				5

Major Irrigation Works.

WESTERN JUMNA CANAL.

- 1. The expenditure (direct and indirect) amounting to Bs. 15,659 was wholy "imperial" and was incurred mainly on new rest-house at Anchra; subordinates' rest-housesat Tajewala and Jainti and a new dispensary at Dadupur.
- 2. The expenditure amounted to Rs. 1,40,182 (Rs. 1,18,508 under "imperial" and Rs. 21,074 under "contribution") and was incurred in numerous small works for increasing the efficiency of the canal and in improvements to buildings.
- 3. Rupees 630,839 were expended (Rs. 6,02,861 under "imperial" and Rs. 20,978 under "contribution"). In addition to this Rs. 11,890 and Rs. 13,394 were also spent by the Patiala and Jind States, respectively, on the maintenance of their distributaries. Apart from the ordinary repairs and maintenance of channels and buildings, numerous works were carried out for increasing the efficiency of the canal and improving the banks of the channels. The silt berms which had been successfully formed by the basket-work-spurs at Dadupur, were protected by pitching at intervals, and the large silting reaches above Indri were maintained and worked during the year; also as those in the Main Branch and the Hansi Branch. A large sum was also spent on clearance of drains recently taken over from the Civil Department.
- 4. (a) Kharif.—The monsoon was very poor and the existing supply of Nature of seasons and state of demand fodder insufficient so that a great scarcity of fodder and supply. Set in early in the crop in dry districts such as Rohtak and Hissar. Throughout the season up to half-way through September the monsoon was distinctly below normal. The canal was in flow for 165 days out of 183 days and was closed for 18 days only, which included 7 days for opening and 7 days for closing Badarpur silling reach. The demand was fairly keen throughout and supply sufficient. There were no high floods in the river, the highest gauge registering 25.0 feet at Paunta on the 17th August against the maximum recorded flood of 38.5 on the 14th August 1903.
- (b) Rabi.—There was good rain in the last fortnight of September which induced a large amount of rahi sowings, the sowings originally put down as barani largely came under irrigation later on owing to the failure of the winter rains. The demand was very keen but the supply in the river was the lowest on record. The average supply in January was 300 cusees below the average for the last 15 years, 500 cusees below it in February, and 1,000 cusees below it in March, and it was with great difficulty that the crop which was the second largest on record was matured at all. The canal could not be closed at all during the season and remained in flow for 183 days. The lowest supply in the river occurred on 30th March 1916 and was 2,167 cusees; the lowest ever recorded.

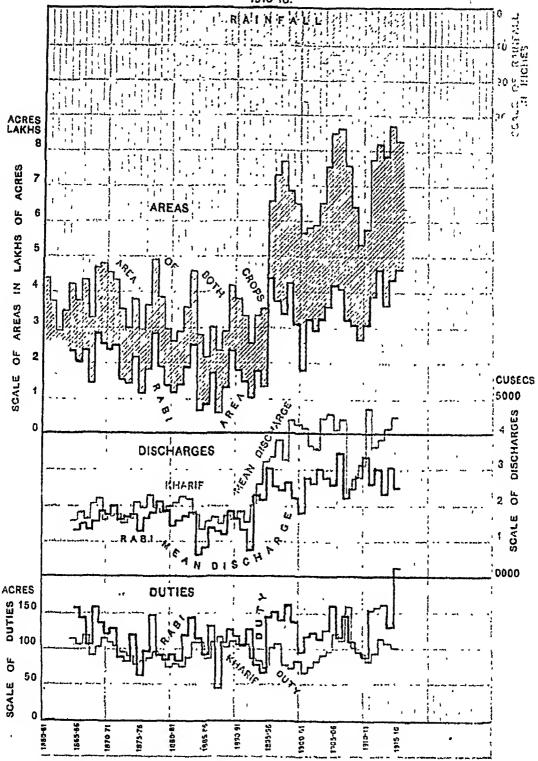
(c) Rainfall—The following table compares the rainfall during the year with that of the previous year:—

		G		RAINFALL IN INCHES IN			
		Station.		-	1914-15.	1915-16.	
Paunta	,	•••			92.5	60.0	
Tajewala	•••		•••		80.8	36.4	
Indri	•••	•••		,	41.8	20.1	
Munak	•••	•••	•••		27.0	11.1	
Delhi	***	•••			31.2	15.5	
Karnal		·;·	•••		36.4	21.0	
Dadupur	•••	•	•••	,	58:86	24·8 5·7	
Hiesar	•••	•••	•••		18:65	5.7	
Rohtak	•••	•••	•••		22.00	6.8	



// WESTERN JUMNA CANAL.

WORKING RECORD. 1915 16.



N. B.—The intercepts in the red area show the Kharif acreage each year.

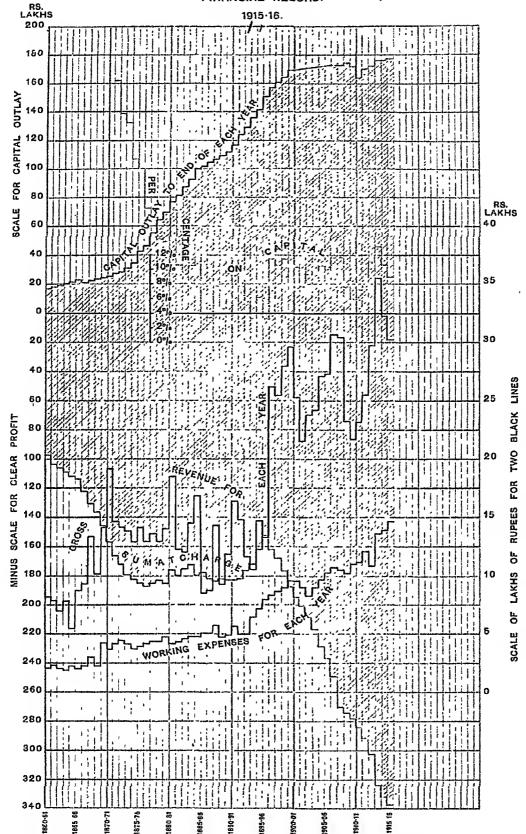
The areas shown include those done in Patiala State on Sirsa Branch

The discharges are as measured at canal head, and are averages utilised for the whole of each crop.

The duties are derived from the above areas and discharges.

WESTERN JUMNA CANAL.





N. B.—This diagram does not include figures for Patiala State on Sirsa Branch; it is "Imperial" only. The intercepts in the blue area are measures of the accumulated clear profits of the scheme; and if measured on the minus scale the readings are clear profits after reimbursing the whole of the enjital expenditure.

This canal was taken over in the early half of the 19th century without the expenditure of any capital; there has therefore never been any arrears of interest, and the sum at charge has never been greater than the capital. In 1900-01, it will be seen that the whole capital had been repaid, and about 194 lakks in addition as clear gain.

No interest on this clear profit has been allowed for, so that the gain is more than shown.

The intercepts between the black lines show the net revenue each year.

The sudden rise in 1896-97 of gross receipts was due to a famine year, but has been continued since owing to large extensions.

5. The following table compares the irrigation effected during the year with the averages of the two previous triennia:—

1			· Average for the 3 years ending.		Area irrigated
Стор.		1911-12.	1014-15.	during 1915-16.	
Kharif Rabi	414	***	808,782 325,186	400,627 425,140	361,275 463,808
	Total		638,965	825,773	825,033

The area irrigated shows a distinct improvement over previous years, and this was due to the recent improvements in channels and scientific designing of them. The decrease in the tharif was due to the fact that the camindars were advised by the Civil Department not to put down cotton as there would be difficulty in disposing of it owing to the general dislocation in trade which followed the outbreak of the war. The area under cotton was, therefore, one lakh acres less than usual. The rabi of 1914-15 was a humper one having only been exceeded on two previous occasions. After reaping it the comindars did not trouble much about putting down caid rabi crops. There was a heavy death roll from plague and in some areas cholora was prevalent. Had it not been for this the total area of irrigation of the year would probably have far exceeded previous records. The rabi irrigation, in spite of extraordinarily low supply in the river and total failure of the winter rains, was the second highest on record; being 463,908 acres against the recorded maximum of 471,533 acres in 1912-13.

- 6. The receipts amounted to Rs. 52,266 and maintenance charges to Rs. 5,153 showing a nominal profit of Rs. 47,113' against Rs. 59,244 in 1914-15 and Rs. 56,410 in 1913-14. The navigation receipts are almost wholly due to the rafting traffic from Tajewala to Jagadhri Railway Station. Navigation in the Dolhi and Hansi Branch, except for rafts, was closed from April 1915 and the result was very beneficial to the canal in general by permitting of better design of channels. No boats are now plying for hire on the canal.
- 7. Imperial.—The gross revenue collected amounted to Rs. 30,06,351 which is less by Rs. 2,28,775 than the average for the triennium ending 1914-15. The decrease is due to decrease in kharif irrigation.

The working expenses amounted to Rs 14,05,414, which is Rs. 1,09,614 more than the average of the previous triennium. The increase was due to heavy expenditure on silting reaches and improvements to banks of channels and clearance of drains recently taken over from the Civil Department.

The net revenue amounted to Rs. 16,00,937 against Rs. 19,39,327, the average of the previous triennium and Rs. 18,46,565 of the previous year.

Contribution.—The net revenue received by the Patiala State on their channels on the Sirsa Branch amounted to Rs. 148,296 or 12.77 per cent. on the capital cost invested, against an average of Rs. 1,53,966 or 13.38 per cent. for the triennium ending 1914-15, and Rs. 1,34,437 or 11.58 per cent. for the year 1914-15.

8. (a) I gricultural and other conditions of the year.—The canal was in flow for 348 days and remained closed during the kharif for 18 days only. The rainfall was insufficient and considerably below normal. The monsoon was a very poor one and the winter rains failed almost entirely. The area remitted amounted to 6,184 acres during kharif and 12,630 acres during rabi, giving percentages of 1.71 and 2.72 acres, respectively, on the area irrigated, against 4,168 acres for kharif and 1,188 acres for rabi giving percentages of 0.95 and 0.27, respectively, in the previous year. The rabi crop was poor in quality. The year from an irrigation point of view was not favourable owing to deficiency of rain and low supply in the river.

Throughout the year water was given free of charge to village tanks as usual and this benefit is greatly appreciated in rainless areas such as Sirsa, Hissar and Rohtak. This year the benefit was specially felt as most village tanks dried up, completely, early in March, owing to the failure of the winter rains, and there would have been no water for the cattle or for domestic purposes in general if it had not been supplied by the canal and the mortality among cattle would have been great. In most villages the zamindars risked damage to their crops so as to get water for their tanks. In the dry districts of Sirsa, Hissar and Rohtak and also in Jind and Patiala States there was great scarcity of fodder from January onwards, and it was imported into these districts by rail at Government expense.

The area thrown out of cultivation by swamping along the lower reaches of the Main Line is being gradually improved by the costly silting reaches which have now been formed to protect it and a great deal of the Indri silting reach is now under crop, and the crops extend right up to its outer bank. The benefit from the canal to the land alongside the upper reaches of the Main Line is very great and enables several thousand acres of sugarcane to be grown annually on percolation water for which no water-rate is charged.

The value of crops assessed to water-rates on the canal amounted to Rs. 3,17,84,049 which shows that the canal is a very valuable asset to the country.

- (b) Nature and scope of contemplated new works and progress made on the preparation of new projects.—(i) The proposals for a high dam across the Jumna at Koch were finally abandoned by the Government of India as the rock was not of sufficiently good quality.
- "(ii) A fresh design and estimate for a new level-crossing of the Somb Torrent at Dadupur amounting to about 15 lakhs of rupees were submitted to the Government of India. The site selected was a different one from former proposals. The Government of India have since returned the estimate with instructions to recast the same.
- (iii) Proposals and estimates for remodelling the Headworks at Tajewala were under consideration.
- (iv) Proposals for substituting Canal Minors for the direct water-courses near Tajewala were investigated.
- (v) Propesals for dealing with the Closed Drainage Area of Karnal District were under consideration.
- (vi) A project for substituting a kharif distributary for the present Lower Chautang Canal was under investigation.
- (c) Interesting facts relating either internally or externally to the canal.—Capacity statements for the whole canal, which have been under consideration

for the last three years, were finally accepted by the Chief Engineer, the Commissioner, Ambala Division, and the Chief Commissioner; Delhi Province. These statements, which place the area proposed to be irrigated annually on a percentage basis of the area commanded in various zones on the canal, should greatly improve the working of the canal.

Navigation on Delhi Branch and on Hansi Branch below Jind was abolished from the beginning of the year. This will enable the Delhi tail distributary and the Hissar distributary to be put in proper order and make them more suitable for irrigation requirements.

The question of garden irrigation in the neighbourhood of Delhi was taken up as excessive irrigation was causing insanitary results. In consultation with the Chief Commissioner, Delhi Province, the discharge allowed for the area in question was reduced to about one-half the amount formerly given.

The drainages within the canal area in the Karnal and Rohtak districts and Delhi Province were finally taken over from the District Boards in consultation with the Civil Department and will, in future, be maintained under the supervision of and at the expense of the canal.

A temporary Division was formed for six months to work up the projects for (a) Koch Dam and (b) Remodelling works at Dadupur and Tajewala.

Special proposals and estimates were prepared which are now under consideration.

Steady progress was made in remodelling all channels into more scientific sections and in revising their capacities to the actual discharges required throughout.

Owing to the advice given to the zamindars that cotton would not pay owing to the war, an attempt was made to reintroduce indigo on the canal. The attempt was on a moderate scale but about 15,000 acres of indigo were expected. The seed obtained from Bengal, however, failed to germinate and consequently only a few thousand acres of it were put down and these were afterwards mostly re-sown with other crops. Formerly indigo was cultivated in Karnal and Delhi only and the vats are still in existence and it was intended to have them repaired and brought into use again. The experiment will, however probably not be proceeded with.

The war has stimulated the manufacture of saltpetre within the canal area, but this did not start till near the end of the year and was much handi-sapped by the extraordinary insufficiency of water for the time being.

Irrigation in Patiala State.—The irrigation in the Patiala State from the Sirsa Branch was 34,804 acres in kharif and 28,533 acres in rabi or a total of 63,337 acres exclusive of 304 acres remitted in kharif and 108 acres remitted in rabi. The average area assessed for the two previous triennia was 70,001 acres and 57,888 acres, respectively.

Irrigation in Jind State.—The supply which the Irrigation Branch has undertaken to allow the Jind State is 353 cusees in order to irrigate an area of 60,000 acres in the year. The irrigation done, amounts to 57,857 acres or a decrease of 7,123 acres or 10.9 per cent. when compared with that of the previous triennium. The kharif area is 10,095 acres less than that of last year owing probably to less cotton being sown, but the rabi area is greater by 2,972 acres. The average areas irrigated during the two previous triennia ending 1911-12 and 1914-15 were 50,778 acres and 64,058 acres, respectively. Besides the area recorded above, the Jind State gets an average of 2,300 acres of irrigation from the Butana Branch which is assessed at the water-rate prescribed for British areas on the Western Jumna Canal. The maintenance, management and assessment connected with all Jind distributaries are in the hands of Jind State officials.

The following table shows the working of the Jind State distributaries as reported by the State:—

Particulars.		1911-12,	1912-33,	1913-14.	1914-15.	1915 16.
		Rs.	Rs.	Rs.	Re.	Rs.
Receipts.		'		[· 1	
Occupier's rate	•••	2,61,232	2,60,491	2,84,720	2,83,998	2,62,054
Miscellaneous	**	2,121	б,022	E 800	ช,0 63	5,678
Total	•••	2,63,403	2 05,512	2,90,060	2,91,081	2,67,733
. Worling expenses.						
Establishment	•••	6,513	9,414	7,561	7,817	7,337
Other expenses	•••	25,003	21,005	27,258	28,365	31,776
Occupier's rate paid into British treasury	***	1,19,641	1,42,356	1,31,000	1,31,000	1,31,000
Total Working Expenses	•••	1,51,250	1,76,766	1,65,819	1,67,182	1,70,173
Profit or loss		+1,12,153	+88,747	+ 1,21,251	+1,26,699	+97,559

The above account shows a profit of Rs. 97,559 against a profit of Rs. 1,26,899 in the previous year.

Irrigation in Bikaner Stat:—This canal has also to irrigate 460 acres annually in the Bikaner State from the tail of Hissar distributary. The areas actually irrigated amounted to 483 acres in kharif and 85 acres in rabi or a total of 568 acres against 421 acres in kharif and 517 acres in rabi of the previous year. The rabi area was short because of the difficulty in getting the supply down to the tail owing to the very keen demand.

Inrigation in the Kalsia State.—The irrigation in Kalsia State from Main Line of the canal was 696 acres in kharif and 779 acres in rabi or a total of 1,475 acres exclusive of 25 acres remitted in kharif and 18 acres remitted in rabi. The average area assessed for the last 3 years has been 743 acres in kharif and 889 acres in rabi or a total of 1,632 acres.

SIRILIND CANAL.

1. (a) Imperial.—The expenditure (direct and indirect) amounted to Rs. 61,111 and was incurred on completing the New Divisional Office at Rupar, the Girder Cart. Bridge at Khatani (R. D. 166,460 Main Line,) and collecting materials for the bridges at Bul, R. D. 34,810 and Saholi R. D. 91,250 Abohar Branch.

Charges in England were also made on the Stoney Gates for the Rupar Undersluices and Lock Channel, but owing to the war the material did not arrive in time to enable erection to be done.

- (b) Contribution.—The expenditure of Rs. 58,854 under this head represents mainly the share borne by the signatory states of the expenditure incurred on the headworks and Main Line.
- 2. (a) Imperial.—The expenditure amounted to Rs. 1,34,408 against Rs. 1,09,420 in 1914-15, and was incurred mainly on the completion of the wire ropeway over the weir at Rupar, building a new Telegraph Office at Maholi, additional accommodation for servants and stables at various rest-houses, improving distributary head regulalors and raising sunken bridges. Altogether about 17 such works were carried out.

- (b) Contribution.—The expenditure was Rs. 1,69,359, of which Rs. 1,39,314 represents seigniorage charges and the balance is the share of expenditure at the Headworks and on the Mian Line; as also the cost of additions to some rest-houses and out houses at Dhaneta.
- 3. (a) Imperial.—The expenditure was Rs. 4,19,363 against Rs. 4,18,408 in 1914-15. The most important repair works earried out were—digging of the outfall channel, Siswan Torrent; repairing spurs, Budki Torrent, concrete slab experiments at Rampore; and raising and strengthening banks, silt clearance, etc., of several distributaries; all the above being in addition to the ordinary maintenance and repairs of channels.
- (b) Contribution.—The expenditure was Rs. 1,42,934 against Rs. 89,418 in the previous year, and represented the cost of the usual maintenance charges and a share of the expenditure on the Headworks and Main Line which was heavy, and accounts for much of the increase above.
- 4. (a) Kharif.—The canal was in flow for 171 days. The demand in the early part of the season was slack to moderate owing to the very heavy barani rabi of 1914-15 which had to be harvested. In July and August the demand was intensely keen owing to the failure of the monsoon and continued so till the middle of September when there was widespread, and general rain of fair intensity which reduced the demand.

The supply was ample.

- (b) Rabi.—The canal was in flow throughout the season. Owing to late rain in September the river remained full and rotational turns did not begin till 1st November. The supply fell gradually and remained low throughout January, February and March. There were no winter rains and little snow on the lower ranges so that there was no rise in the river. The shortage of canal water was considerable, and as there was little or no rain to help, the failures on British Brane, es was 4.5% per cent, which was fairly good. This was, however, due to excessive irrigation as the area was the second best on record, second only to the rabi of 1911-12, and if the people had only been content with a fair amount of area the failures would not have been so heavy.
- (c) Rainfall.—The mean rainfall of the year over the irrigated tract in each district is compared in the following statement with the average mean of 32 years:—

District.				Rus	Percentage of	
		Crops.		1915-16.	Average of 32 years.	actual to average of 32 years.
Ludhiana	•••	Kharif 1915 Rabi 1915-16	:	7·69 1·45	15.56 3.28	
	,	Total		9-14	18-84	48 %
Terozepore	•••	Kharif 1915 Rabi 1015-16		3·89 1·39	11·48 2·10	,
		' Total		5 ∙28	13-67	38 %
Native States	•••	Kharif 1015 Rabi 1915-16		0.61 1.02	15·05 3·06	
		Total	•••	7.66	18-11	42 %

It will be seen that the rainfall was much in defect everywhere. In the critical period, December and January, when rain was required to assist "Kor" waterings there was no rain whatsoever.

5. The following table compares the irrigation effected with the averages of the two previous triennia:—

	Average of three trans ending.					
	Crop.	rop. 1911-12.		1914-15.	1915-16.	
	· · · · · · · · · · · · · · · · · · ·	-	Acres.	Acres.	Acres.	
		1	B	ritish Branches.		
Kharif Rabi	•••		205,491 505,678	337,234 556,578	292,862 631 <u>,</u> 197	
	Total		711,169	893,812	927,059	
		,	Na	two States Branches.		
Kharif Rabi	•••		122,533 251,090	185,659 293,026	209,06 2 370,946	
	Total		376,623	478,085	580,008	
		; -	Brilish an	d Native States Bran	ches.	
Kharif Rabi	• •	:::	025,024 759,768	522,195 819,604	501,92 4 1,005,143	
	Total		1,087,792	1,872,497	1,507,067	

The gross area for the year was the second best on record, the highest being in the year 1911-12 when 1,609,458 acres were irrigated followed by 1,486,782 acres in 1912-13. The area for the year is in excess of the average of either triennia.

.. Taking the crops separately, in *kharif* the area, in spite of the inauspicious start, eventually closed at 501,924 acres, the third highest on record, the *kharif* crop of 1914 being first with 555,208 acres and 1912 second with 521,959 acres. On British Branches alone there was a slight decrease compared with each of the previous four years and the good result was due to the Native States Branches which did the highest on recerd.

In rabi the total area was over a million acres, which only happened once before in 1911-12.

As compared with the figures of the previous year the *kharif* area was 9.6 per cent. short, whereas the *rabi* area was 38.15 per cent. more.

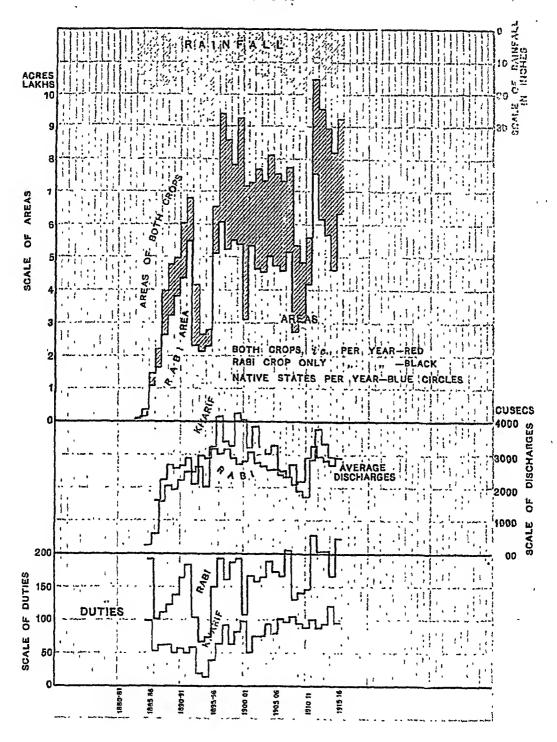
Navigation.

6. The details of trafic in tonnage and receipts is shown in this table:—

Particulars.		1914-15.	1915-16.
Tonnage carried Value of Tonnage Toll receipts and raft dues Maintenance charges Number of passengers carried	Mds, Rs. Rs. Rs.	35,470 13,70,902 19,085 8,840 20,319	31,249 11,72,252 17,030 5,757 20605

SIRHIND CANAL-BRITISH.

WORKING RECORD. 1915-16



N. B .- The intercepts in the red area give the Kharif acresge each year.

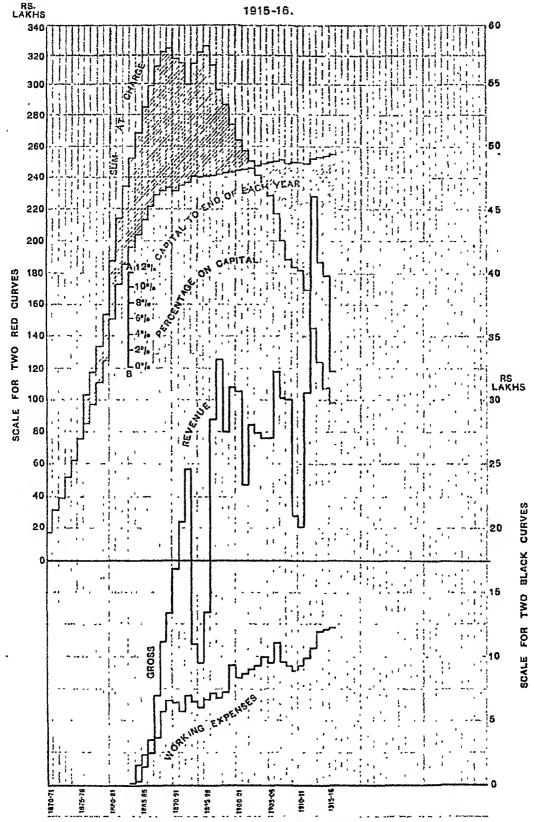
The small areas of 1892 to 1896 were partly due to silt difficulties, but chiefly to heavy rain. The working is more or less unsteady always.

The discharges are measured in main line 26 miles from the head. Of the whole supply 36% goes to Native States, not included here; so that the discharges here shown are only 64% of the netual flow.

These States ought therefore to do areas equal to 24ths of those shown above. The actual areas done for both crops are shown for comparison by blue circle, and it will be seen that owing to less efficient management they have done less than half the British, instead of 36/64ths. In winter the whole river is taken in; in Kharif the supply is more than enough, but the demand is then always low.

SIRHIND CANAL—BRITISH

FINANCIAL RECORD.



N. B.—The intercepts in the red area show arrears of interest which, added to the capital, give the sum at charge. Where the two red curves cross all such arears were wiped off, and thereafter accumulated profits accure, as measured by the intercepts in the blue area.

The scheme was begun about 1870 and opened in 1883-84. The lapse from prosperity shown in period 1893 to 1896 was partly due to silt troubles since overcome, and to exceptionally heavy rain.

The intercepts between the black curves give the net revenue.

No interest is charged on the arrears of interest, so the sum at charge is somewhat untrue.

There was a further reduction in maintenance charges this year and the not return higher than in either of the two preceding years, although the tonnage carried was less than in the previous year.

The net revenue earned on the British Branches amounted only to Rs. 19,88,482 equivalent to 7.78 per cent. on the capital invested. This compares unfavourably with the figures of the previous years and is due to—

- (a) the very poor rabi area of 1914-15 (revenue of which was collected in 1915-16), which was the lowest since 1910-11;
- (b) an uncollected balance of Rs. 1,35,496 out of which Patiala State was responsible for no less than Rs. 1,29,379.

The following table gives the amounts of occupiers' rates collected and balances uncollected:—

	3	Year.	Collected.	Balanecs uncollected.
1913-14 1914-15 1915-16			 Rs. 37,57,080 35,02,152 28,00,269	Rs. 13,564 28,908 1,35,496

The working expenses were Rs. 12,38,558 being Rs. 40,615 more than in the previous year. This excess is due to heavy maintenance charges on torrent works, and to a small capital expenditure entailing more establishment charges being debited to maintenance instead of to capital.

But owing to the very large area irrigated during the year the cost per acre of maintenance charges is only 1.34 per acre against 1.46 in the previous year.

Native State Branches—The following table compares the results of collections, assessment profits and area assessed with the previous year:—

		Амочит о	r Revenue.		Profits on		
	Year.	,	By collec- tions.	By accession ment. Area assession.		Collec- tion.	Assess- ment.
***************************************	•		Rs.	Rs.	Aeres.	Per cent.	Per cent.
1914-15 1915-16	•••	***	21,53,781 22,16,852	21,03,077 25,91,262	462,497 577,811	10 11 9·90	9·77 12·83
	More or less	•••	+03,121	+4,90,285	+115,341	-0.21	+2.98

The profits on "Collection" are low because of the poor rabi of 1914-15 (revenue of which was collected in 1915-16). On the other hand, profits on assessments will be high as the latter is on the very big rabi erop of 1915-16.

8. (i) (a) Projects.—The project for extension of irrigation to Maler Kötla

State referred to last year received the approval
of the Local Government, the limits of irrigation
being the first drainage to the west of the Bhatinda Branch. This will entail
the construction of two small distributaries; a detailed estimate is in course of
preparation.

(b) The project for a dam and reservoir on the Sutlej River at Neila Gorge has now developed into a very large and comprehensive scheme. It

absorbs the smaller project for irrigating Tract A 9 in the Sirsa Tahsil. The general lines now are to relieve the lower portions of the Abohar and Bhatinda Branches by giving them a separate source of supply from a canal taking out from the Sutlej some 12 miles or so below Phillaur Railway bridge; this canal will have extensions into Bikauir and the greater part of Tract A 9. The water thus set free in the present Sirhind Canal System will be carried by means of a Feeder to Kaithal on Sirsa Branch of the Western Jumna Canal and this will take up the irrigation of the Branch below the junction with extensions into unirrigated tracts adjacent.

A special Project Division was sanctioned and has been at work since October last. The site selected for a Dam in the Sutlej has been favourably reported on by the Geological Expert and subsequently approved by the Inspector General. The water stored here will enable the scheme out-lined above to be carried out with not only an almost certain hope of financial success but a certain assurance of protection against drought in famine-stricken tracts.

(ii) Effect of enhancement of water rates. Sugarcane.—The cultivation of this crop is still stationary; only 1,071 acres were sown. The soil and climate of Ferozepore and Bhatinda Divisions appear to be unfavourable to this kind of crop, and it is not popular.

Cotton.—The area of cotton sowings fell from 23,435 in 1914 to 1,621 in 1915. The war is no doubt responsible for this; the drop in cotton prices at end of 1914 discouraged sowings, although there was a recovery in prices during the year.

Wheat—The area under wheat rose from 213,502 acres in 1911-15 to 299,013 in 1915-16.

(iii) Agricultural conditions.—The agricultural conditions were unfavourable for anything but canal sowings. The heavy barani rabi of 1914-15 and plague prevented sowings of early kharif; when the monsoon failed there was a sudden rush for folder crops. Again, there being no barani kharif folder crops large areas of rabi crop were put down on canal waterings. The results were favourable to the canal but bad for cultivators generally. Only a small area of oilseeds was sown on this canal—

			Acres.
British Branches	•••	***	4,588
Native States Branches	***	***	6,289

The very dry year seems to have been beneficial in keeping down the plague epidemic.

There were heavy flights of locusts in August, but the damage was not excessive, only 225 acres needing remission.

(iv) Interesting facts.—The opening of the Project Division and the outline of the work to be done by it has already been touched on.

Proposals for another Division to take up parts of the too heavy Ferozepore Division and a part of the Bhatinda Division are under consideration but its actual formation may have to wait for less financially stringent times.

A scheme for a Railway to serve the Neila Dam site and tap the export of stone from the Nalagarh Quarries has also been suggested.

The material for the Stoney Gates to be erected at Rupar has been received and the work will be completed this winter.

Extensive experiments with concrete slabs were carried through during the year. It was proposed to line a length of the Main Line experimentally. This was approved and an estimate sanctioned. The work will be carried out this winter if a closure is possible.

UPPER BARI DOAB CANAL.

1. The expenditure (direct and indirect) on works, excluding suspense, amounted to Rs. 4,79,600 against Rs. 1,25,463 in the previous year, and was incurred on the following works:—Building Executive Engineer's Office at Gurdaspur; remodelling the Head Works at Madhopur; Hydro-Electric Installation at Amritsar; and lining the Main Branch Lower, with cement plaster. The sum of Rs. 4,79,600 includes Rs. 2,65,595 on account of expenditure in England.

The suspense account showed a credit balance of Rs. 1,30,448 against a credit balance of Rs. 44,589 in the previous year.

2. Expenditure amounted to Rs. 1,02,058 against Rs. 1,53,369 in the previous year and was chiefly incurred on—extending the Crate Spur at Upper Training Works, Madhopur; constructing Lahore Cantonment Minor off-taking from Kaura distributary, Lahore Branch; outlets, and culverts Niaz Beg distributary; telegraph offices and signallers quarters at Sheikham and Mall; lining Government House distributary; remodelling Ghosal and Tarpai Drains; and bridges on Tarn Taran distributary.

Besides the above many bridges were remodelled in the 4th Division, Upper Bari Doab Canal, and expenditure was also incurred on extension of plantations.

- 3. Expenditure amounted to Rs. 5,36,636 as against Rs. 5,40,811 in 1914-15. In addition to ordinary annual maintenance and repairs, expenditure was incurred on the following important works:—Works in the river at Madhopur; shingle clearance from the canal and river grouting Dhanna Weir; clearing Kahnuwan Swamp Drain; repairing and extending pitching, Main Line, Main Branch Upper, below Badian and Luliani Rapids; and raising and strengthening banks of the Amritsar and Raewind distributaries.
 - 4. The total output of manufactures during the year amounted to Rs. 2,61,834 against Rs. 4,59,880 in 1914-15.

The principal work in progress was the Amritsar Hydro-Electric Pumping Scheme and this is now nearing completion. The expenditure upon this work amounted to Rs. 2,75,014 against Rs. 53,683 in the previous year.

The manufacture of munitions was also taken up by the shops later in the year. The work in the early stages was confined to the making of gauges for use at the various other shops which were to take up shell manufacture and about 900 gauges with a very close degree of accuracy were made.

For the purpose of manufacturing Howitzer shells a quantity of machinery, including 100 lathes, was obtained from private owners. By the close of the year under review about ten thousand shells were in hand.

Numerous petty jobs were also done for other circles of the Punjab Irrigation Department and Departments of other provinces; including 70 sets of rajbaha and 61 sets of minor, gates and gearings, and 50 winches without gates, Total castings of iron and brass amounted to 7,013 and 83 maunds, respectively.

The percentage charges realized on the value of work done was Rs. 1,04,581 against Rs. 1,16,481 for the previous year. These charges include percentages on those unfinished works, also, on which expenditure had been incurred in the previous year.

5. The following table compares the area irrigated during the year area irrigated. with the averages of the two previous triennia:—

	<u> </u>		•	Average of 3 y	EARS EXDING	1915-16.
		Crop.		1911-12,	1914-15,	1919-10.
Kharif Rabi		•••	•••	Acres. 463,232 595,109	Acrès. 550,379 611,568	Acres. 489,941 655,290
		Total		1,058,841	1,161,947	1,145,234

6. The mean rainfall is compared with the averages of the previous three Rainfall.

Rainfall.

			1915	7 16,	Average of pr years ender		
	Di	strict.		Kharif.	Rabi.	Kbarf.	Rabi.
Gurdaspur Amritsar Lahoro	•••	***	•••	16·20 0·61 4·68	2-21 2-00 2-03	20 60 19:51 15:11	8·02 6·01 4·57

The monsoon was a very unfavourable one. It broke late and even then it was so weak, that it cannot be said, exactly, when it commenced.

In April 3 falls of rain occurred at Madbopur. In May no rain was recorded. In June only one fall of 0.4 inches occurred. In July, August and September it rained on 10, 17 and 11 days, respectively.

The months, October to March inclusive, were practically rainless—The total rainfall at Madhopur for the six months was only 31 inches—During the year there were very few floods in the river Ravi and the highest gauge recorded at Mukesar was only 17 feet.

S The net income (direct and indirect) amounted to Rs. 33.46,404 equivalent to 15.29 per cent. on the capital invested against 13.65 per cent. of the previous year

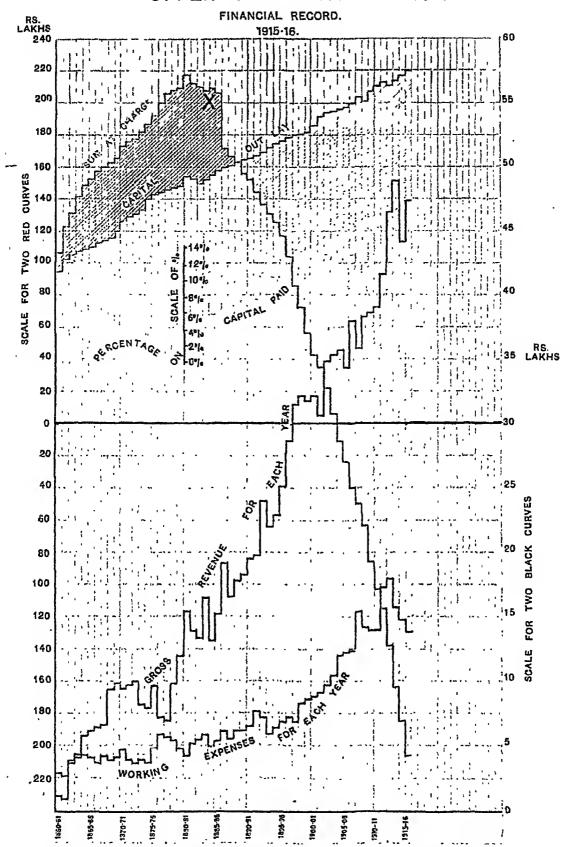
The uncollected balance of occupiers' rates was Rs. 14,966 against Rs. 12,155 at the end of the previous year.

Remissions of water-rate amounted to Rs. 84,219 against Rs. 1,35,212 in the previous year. The area for which remission was granted was 22,859 acres against 28,331 acres in 1914-15.

9. (a) Duty.—The average duty secured on the supply útilized was 83 acres in kharif and 263 acres in rabi as against 101 and 219, respectively, in the previous year.

The canal was closed on 15th March 1915 and was reopened on the 7th April 1915. No other general closure was possible.

DOAB CANAL. UPPER BARI



N. B .- The intercepts in the red area show arrears of interest unpaid up to end of each year, which being added to the capital give sum at charge.

The intercepts in the blue area give the accumulated profits. In 1904-05 the whole capital was reimbursed.

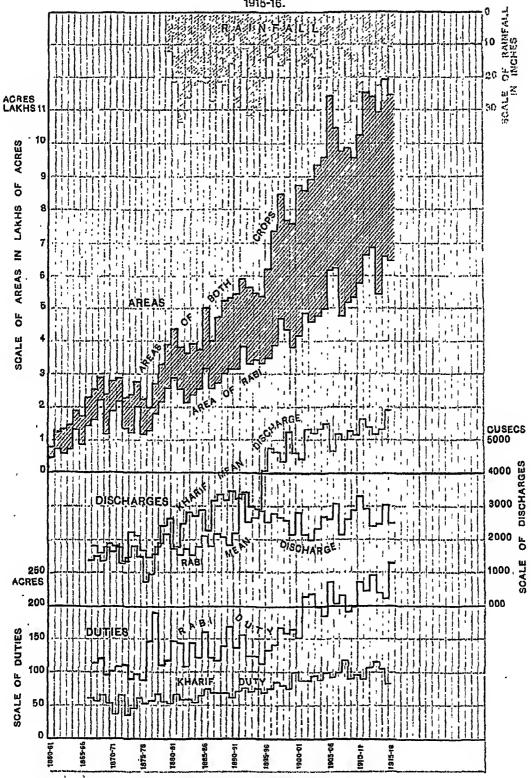
No interest is charged for the sums in the red area, so the diagram is rather distorted in this respect.

The intercepts between the black curves give the net income each year.

Remarks.—The sudden drop at X is partly due to a write-back of about 30 takhs, but was continued by the rapid development of irrigation in the lower reaches of the canal. Up to 1888-89 the canal worked at a loss, since then it has been very profitable.

UPPER BARI DOAB CANAL.

WORKING RECORD. 1915-16.



N. B .- The intercepts in the red area show the Kharif acreage each year.

The discharges are measured at canal head and are averages for each crop.

The duties are derived from these areas and discharges,

Remarks.-The Kharif duty is fairly uniform and increasing slowly.

The Rabi duty is more irregular, due to variation in demand, but is increasing recently.

The Rabi supply decreased fairly steadily from 1891-92 to 1902-03, but nevertheless the areas increased owing to higher duty.

The Kharif supply has increased since 1894 very considerably, owing to the capacity of the canal being enlarged.

Usually the whole of the river winter supply is taken in for the Rabi crop, but after March and up to September the river supply is in excess of requirements.

	(b) Principal of	rops.—The 1	principal crops	grown	during the	year are com-
pared	(b) Principal of in the following	table with t	those grown in	i the pr	evious year	: "

•	Na	ime of crop.	•		1914-15.	1915-16.
					Acres.	Acres.
Wheat	٠٠٠ '	·			2,63,879	244,185
Barley	·	•••	***	:	7,158	6,251
Rice		•••	***		61,063	72,719
Maize		***	•••		48,689	86,517
Millets		•••	•••	1	12,912	45,997
Cotton		144		•••	180,535	88,290
Sugareane				,	28,963	29,361

The very large decrease in the area of cotton sown was probably due to a heavy fall in the price of cotton owing to the war.

This large decrease in cotton was partially compensated for by increase in maize and millets.

(c) Agricultural conditions.—In spite of the partial failure of the monsoon and the almost total absence of winter rains the agricultural conditions and results were fairly satisfactory. Owing to absence of rain, during the rabi, the "straw" was short but the grain outturn was better than might have been expected, and the year was, on the whole, a prosperous one for the cultivators.

There was little or no damage from insect pests.

- (d) Contemplated new works.—The following are the most important works in prospect or in progress:
- (1) Remodelling Madhopur Outlet.—Owing to the war, material did not arrive from England and thus no progress other than extending the masonry of piers was possible.

The work will, it is expected, he completed during the coming cold weather.

(2) Radial Arm Gates Madhopur Inlet.—The gate erected towards the end of the cold season of 1914-15 worked satisfactorily and it is proposed to creet two gates of a slightly improved design during the coming winter season.

LOWER BARI DOAB CANAL.

1. The expenditure (direct and indirect) was Rs. 9,30,981 which brought the total amount debited to the Project at the end of the year to Rs. 2,10,81,992 against the revised project estimate of Rs. 2,23,28,402. The above includes a sum of Rs. 10,39,014 spent on water-courses, for which no provision was made in the project estimate as it is intended to recover this expenditure from the colonists.

The expenditure was incurred chiefly on the following works i-

(a) "The main undertaking" noted in the report of the previous year. viz., "extending the floor of Balloki Weir" costing in all Rs. 2,92,948 was satisfactorily completed in June 1915. In addition to this "Painting Iron work in the superstructure of the Balloki Level-crossing" was completed in March 1916, at a cost of Rs. 5,779 and some useful experiments made in paints for steel work below water.

The balance of the expenditure under "works" was incurred in constructing various major and minor channels, flood embankments to keep out spills from the Ravi river, and the Deg Bund and Channel to lead the Deg Nallah floods into the Ravi instead of flooding the country to the west of the canal.

2. The only new work found necessary was an extension of No. 2

Down-stream Groyne of the Merala Weir; this was undertaken to break 2 up a cross-current that had set up along the face of the weir; the work was successful and justified the expenditure of Rs. 8,133.

The total expenditure incurred was Rs. 1,08,006; the bulk of this Rs. 87,822 was absorbed in clearing the liabilities of the work, completed last year, of extending the impervious floor of the Merala Regulator.

- 3. It might reasonably be expected that a comparatively new canal would cost little to maintain and keep in repair but this is not the case. Canal banks and flood bunds never cease to cause anxiety and are particularly expensive to maintain until they become settled and protected with an inner lining of silt berms. A large proportion of the annual expenditure under this head is incurred in repairing the damage caused by heavy rains; the monsoon of 1915-16 was, fortunately in this respect, a light one but still the expenditure was a little higher than in the previous year i.e., Rs. 3,02,123 against Rs. 3,78,889 many works that would have been carried out in years of normal conditions and provision of funds were postponed till better times.
- 4. The rainfall statistics given in the table below are correct indiNature of scasons and state of demand cations of the dry nature of both the kharif
 and rapply.

 and rabi scasons. During kharif, the River
 was, on the whole, much below normal and there were no high floods or long
 periods of high water level; the demand for canal water was necessarily keen
 but there was no difficulty in meeting it until the close of the scason when
 it became intense for late sown rice crops.

The rabi season was remarkable on account of the absence of the usual Christmas rains: the river remained unusually low throughout; the Upper Jhelum Canal was not in a position to supply its quota from the Jhelum river, and consequently it was impossible to comply with the very keen demand.

The kharif crops were very fair and the rabi crops, assisted to some extent by well irrigation, were not much below normal. The area remitted during kharif was 3,012 acres and during rabi 3,497 acres giving percentages, on the areas irrigated of 2.32 and 2.15, respectively.

			1019	-13.	1913	3-1-4.	1914	-15.	1915-16.	
	District.		Kharif.	Rabi	Kharif	Rabi.	Kharif.	Rabi.	Kharif.	Rahi.
Sialkot Gujranwala	- 		14·0 11·7	-2·9 -2·4	19·0 15·2	-2·9 -2·4	25·0 20·0	7·7 5·1	9·6 4·2	-1·7 -0·0

5. The irrigated areas for both fasls are given below and compared with the figures for the preceding years:—

***************************************	Years.	,	Kharif.	Rabi.	Total.
			Rs.	Rs.	Rs.
1912-13	•••	***	 62,691	53,471	1,16,162
1913-14	•••	•••	 1,23,882	40,928	1,64,110
1914-15	•••	•••	 1,21,182	90,693	2,11,882
1915-16	***	***	 1,59,152	1,65,910	8,25,062

The expansion has been steady but not so rapid as anticipated in the project forecast in which it was expected that an area of 500,000 acres would be irrigated in 1915-16; this failure to rise to expectations is largely due to the unforeseen delay in opening the Upper Jhelum Canal.

6. The gross receipts, working expenses and net revenue are given in the following table and compared with the previous years:—

			REVL	NUE		Working	Net	
	Year.		Direct.	ect. Indirect. Total,		expenses.	revenue.	
			Rs.	Rg.	Rs.	Rs.	Rs.	
1912-13	•••		1,35,507	Nel.	- 1,35,507	1,41,421	5,914	
1913-14	•••		5,53,366	5,903	- 5,59,269	4,83,077	1,56,192	
1914-15	***		0,24,064	2,01,762	8,25,826	7,75,292	50,534	
1915-16	***	•	0,56,256	61,077	10,17,333	8,33,808	1,83,525	

The total receipts anticipated in the project forecast amounted to Rs. 21,25,875 for 1915-16. This was, however, not possible to attain as the canal was working only in the kharif until the opening of the Upper Jhelum Canal. As the latter has been opened now a rapid expansion of irrigation is expected to follow next year.

7. The Deg Nallah, that crosses the Raya Branch system, the North-Western Railway and Grand Trunk Road near Muridke, and that used to flood the country west of the Main canal, was unusually quiescent and consequently the anticipated scouring out of the Diversion Channel, leading its flood water into the Ravi river, did not progress to any appreciable extent.

LOWER CHENAB CANAL.

1. The expenditure (direct and indirect) amounted to Rs. 96,722 bringcapital account. ing the total outlay to date to Rs. 8,17,96,780.

The expenditure incurred was mainly in connection with measures for the prevention of water-logging.

- 2. Considerable expenditure was incurred the sum being Rs.9,80, 508

 Extensions and improvements. (Rs. 3,03,281) spent in the previous year. The main work—one which could not be either delayed or undertaken piecemeal—was the improvement of the right bank river defence works at Khanki. Expenditure was also incurred (i) in improving the drainage of the water-logged tract in the Hafizabad Division and (ii) in remodelling distributary channels throughout the Circle, replacing the old type of barrel outlets with the Kennedy semi-module, or gauge outlet, intended for the rateable distribution of water.
 - 3. Expenditure was normal and amounted to Rs. 9,95,947 compared with Rs. 8,53,533 of the previous year. The increase was occasioned by special repair work on the Khanki weir.
- 4. The year under report was abnormally dry in both crop seasons.

 As it will be seen from the rainfall statement below, the total kharif rainfall over the whole canal was 2½ inches and the rabi less than one inch. With these adverse conditions, the kharif area naturally diminished by nearly half a lakh of acres, and the rabi crop, which started with an area of sowings larger than the previous year, had eventually to be given special remissions. On the whole, however, the canal passed through this severe ordeal with credit though not without the utmost concern and effort on the part of both the canal staff and the irrigators.

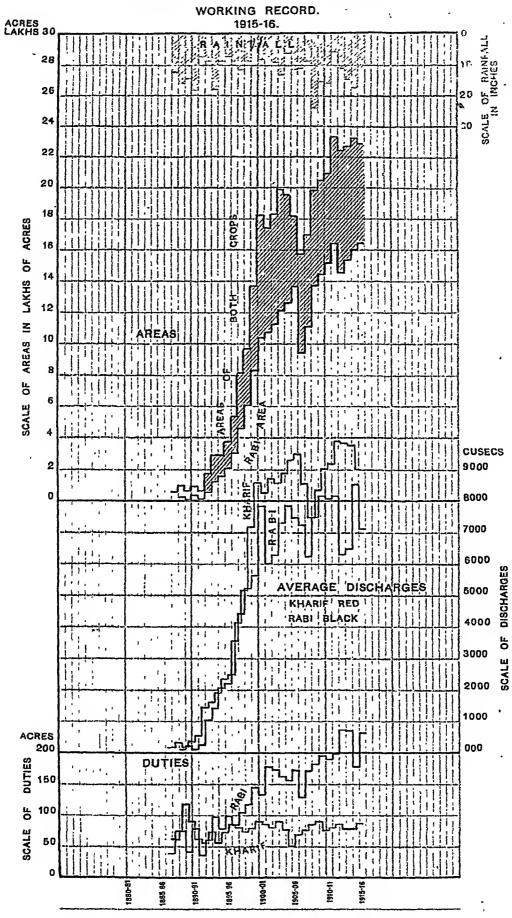
Rainfall.

	Mean.				Jhang District.	Gujranwala District.
Kharif 1915	•••	•••	•••	1.72	1,88	3.94
Rabi 1915-16	•••	•••		•58	1.04	1.21
		Total	··· [2.28	2.92	5.15
1914-15	•••	•••		18.83	13:39	20.73
1913-14	•••	•••	•••	12:34	12.4	17.87
1912-13	•••	•••		8-01	9.77	15.54

5. The following table compares the area irrigated with the averages of the two previous triennia:—

				Average of the 3	YEARS ENDING	Irrigated 1915-16.
	Crop.		1911-12	1914-15.	1915-16.	
	· · · · · · · · · · · · · · · · · · ·		*************************************	Acres.	Acres.	Acres.
Kharif	***	•••	•••	683,678	724,862	652,142
Rabi	•••	•••	•••	1,570,416	1,541,148	1,631,937
y		Total	' •••	2,254,094	2,266,005	2,284,079

LOWER CHENAB CANAL.



N. B .- The intercepts in the red area show the Kharif acreage each year.

The discharges are measured at canal head and give averages for each crop.

The duties are derived from these areas and discharges.

The Rabi winter supply is comparatively high and reliable on this canal.

LOWER CHENAB CANAL.

CURVES.

BLACK

₩0

FOR

SCALE

N. B.—The intercepts in red area show arrears of interest (which are small on this canal) and which being added to the capital give sum at charge.

The intercepts in the blue area are accumulated profits all arrears of interest were paid up in 1898-99.

The intercepts between the two black lines give net revenue.

Remarks-This canal differs greatly from the older . 1s. ' :

6. The net revenue amounted to Rs. 1,26,50,247 equivalent to a return of 39.78 per cent. on the capital outlay of Rs. 3,17,96,780 incurred up to date.

In the previous year the figures of net revenue and percentage on capital were Rs. 1,32,53,785 and 41.81 per cent., respectively.

The decrease in net revenue in 1915-16 is due partly to shortage in kharif area partly to special rabi remissions and partly to increased expenditure on special works.

The accumulated net profits have increased from Rs. 10,24,86,450 to Rs. 11,40,60,690 against a capital of Rs. 3,17,96,780 invested at the close of the year.

Points of interest,

7. The following are some points of interest worth recording:

The canal was in flow altogether for 161 days in the kharif and 183 days in the rabi, i.e., for a total of 344 in the year, and the average daily discharge at eanel head was just over 8,000 cusees.

In this period of time it irrigated 2,284,079 acres or nearly 3,500 square miles of crops and earned a net revenue of close on 127 lakks of rupecs.

These figures, while affording some idea of the productive capacity of water, do not throw any light on the immense activities and efforts repeated year in and year out by the great mass of cultivators who uso the water and pay the revenue.

The following will help to form some appreciation of what this must amount to. The irrigation done is not uniform throughout the year, it is, in fact on this canal as on some others, very disproportionate as between kharif area and rabi area. The rabi area for 1915-16 forms 75 per cent. of the total irrigation, which means that in 183 days the area irrigated and matured was close on 75 per cent. of 3,500 square miles, i.e., 2,625 square miles of crops were irrigated and matured in this short time. But this is not all; it is not only the area done but the quantity of water with which it is done. This will best be understood when it is stated that whereas in the kharif the cusee of constant discharge was carried no further than to irrigate 89 acres, the same discharge was in the rabi spread over 267 acres, i.e., three times as far.

The effort involved is tremendous and constant during this period and the measure of success largely dependant on the smooth working and efficiency of the canal.

It has been stated that the net revenue earned in the year was nearly 127 lakhs of rupees; this being the moncy value of Governmental effort it may be asked what is the equivalent gain to cultivators as a whole. The following figures will show this approximately.

The average profit of an acre of irrigated land may be taken as valued at Rs. 30 out of which after paying Rs. 10 land revenue plus canal rates the balance Rs. 20 is the cultivator's share. Thus for the year under, report the cultivators have recovered Rs. $20 \times 2,284,079$, or approximately three million pounds-sterling.

The following are the areas of the more important crops:—

			Acres.
Wheat	***	•••	1,039,114
Toria	***	•••	186,925
Cotton	411	799	153,471

UPPER JHELUM CANAL.

This year, the 12th since construction began, saw the opening, on the 7th October 1915, of this the final link of the Triple Canal Project. The opening ceremony was performed by His Excellency, Lord Hardinge of Penhurst, the then Viceroy and Governor-General of India, on the 9th December 1915.

During the year, the Head Regulator of the canal (the only work required on the river) was successfully completed; the deep cutting immediately below the Regulator, through which the canal runs, was sufficiently advanced to admit of the canal being opened for irrigation in October. The excavation of this cutting was full of difficulties, and a large slip which occurred between R. D. 75 and R. D. 750 of the canal on the 22nd August 1915, made matters worse; this slip was successfully tackled, and the material, which blocked the canal temporarily, was removed, and the banks set back sufficiently to prevent a recurrence of the evil. The total quantity of material which had thus to be removed, due to this slip, amounted to only 60 lakhs cubic feet all told. This slip was inspected by the Director of the Geological Survey of India and examined in detail by an officer of that department, deputed by him for the purpose. They expressed the opinion that further slips were not likely in the same region, and that the rest of the cutting was also not likely to suffer from similar causes. The year under report, thus, saw the Main Line and the Gujrat Branch completed from Head to Tail and a brisk beginning made on the construction of Main Line and Gujrat Branch distributaries and their water-courses. None of these latter were, however, sufficiently advanced by October to be opened for irrigation.

The area proposed to be annually irrigated as now arrived at is 327,928° acres against 344,960 acres anticipated in the project. The designed discharge at head of the canal is 8,500 cusecs and at tail 7,812 cusecs.

- 2. The expenditure (direct and indirect) amounted to Rs. 19,43,740, which brought up the total cost debited against the project at end of the year to Rs. 4,23,61,119. The expenditure was incurred chiefly on: Mangla cut and the Head Regulator; iron work and gearing for Regulator Suketar II; road bridges over weir Suketar I and Bong escape; district road bridges, falls, inspection houses, head regulators of distributries, and masonry works on the Gujrat Branch; fall and bridge at R. D. 418,500, Main Line; excavating Bhimber Diversion, Main Line; constructing 2 upstream groynes and a crest wall to syphon R. D. 285,600, Main Line; constructing Sub-Divisional Offices with menial quarters at R. D. 347,000, Main Line, and at Chakori; inspection houses at Pahrianwala, Kalu Pindi, Mitha Chak and Maghowala; and masonry works on distributaries and minors of Main Line.
- 3. A revenue account was opened during the year. The receipts amounted to Rs. 6,234, and the expenditure to Rs. 3,42,150, showing a deficit of Rs. 3,85,916, as against project anticipated revenue of Rs. 2,22,500. The reason for this deficit is that no irrigation was done during the year, and the above receipts were from rent of buildings and some other miscellaneous sources.
- 4. Expenditure amounted to Rs. 20,225, and was incurred mainly on improvements connected with the slip mentioned in paragraph 1 supra, the approach roads in the Mangla-Station and protection below the tail fall at R. D. 418,500 Main Line.
 - 5. Expenditure of Rs. 2,50,338 was incurred on the maintenance and watching of canal banks; strengthening weak reaches and maintenance of buildings; canal drains and plantations.

6. The rainfall figures for the year under report compare as below with those of 1914-15:--

:	Stations.			1914-15	1915-16.
				(a) 24.88	16 33
			1		12.10
			1		15-18
	••	***	- 1		8.30
•••	***	***	••• }		3· 40
	***	***	*** *** *** *** *** *** *** *** ***		(a) 24·88 29·60 32·35 20·10

⁽a) Average for the previous 7 years

The year was unusually dry and there were no floods of importance either in the river or in the cross drainage works. The latter were all thoroughly inspected and maintained in good order and repair ready for the heavy floods that usually follow such a year of drought.

LOWER JHELUM CANAL.

- 1. The expenditure (direct and indirect) amounted to Rs. 24,724, but the recovery of Rs. 2,526 from the cultivators on account of acrenge rate. and a credit of Rs. 7,598 under the suspense account (stock issues to works), reduced it to Rs. 14,300. This brought the total outlay to end of the year to Rs. 1,59,65,762. The expenditure was incurred chiefly on Superintending Engineer's residence and office at Sargodha, and masonry outlets on the Faruka distributary.
- 2. Expenditure amounting to Rs. 22,220 was incurred on materials supplied by the Central Workshops, Amritsar, for remodelling the Rasul Head Regulator; remodelling discharge flumes at Ala, and at B. D. 4,500 Northern Branch, and remodelling Heads of Mithalak, Ajuala and Janiwala distributaries.
- 3. Expenditure to the extent of Rs. 2,46,658 was incurred on the annual maintenance of channels, masonry works, buildings and on the stone "talus" below Rasul weir, repairing nose of Divide Groyne, filling seour below undersluices; repairs to noses of groynes 6 and 7 of the weir, and to stop-dam at R.D. 141,000 of the Main Line.

Nature of seasons and state of demand and supply.

4. The rainfall was scauty, and is compared below with that of the previous three years:—

				Year				
District.			, Scasoi	1912-13.		1913-14.	1914-15.	1915-16.
			Kh trif		Tuches. 10·10	Inches. 12.81	Inches. 17·02	Inches. 3.96
Shahpur	•••	{	Rabi		8·30·	3.23	4.58	0.36
			Total		12.70	16.67	21.24	4.32
Tt		5	Kharif		7:81	13.66	13:40	1.98
Jhang	•••	ر	Rabi]	2.67	8.00	5.83	0.36 ·
			Total '		10.13	16.75	16.33	2:34

The kharif season opened unfavourably and continued so throughout. A fairly large area was sown, but with moderate success owing to the scarcity of rain, exceptionally hot dry weather, insect pests, and disease. At the beginning of the season a great deal of damage was done to crops by grass-hoppers. Cotton sowings were greatly restricted owing to the low prices that were realized in the previous year on account of the war. The outturn was also very poor, the plants grew well and looked healthy and strong, but flowered very late, and the bolls that formed were attacked by holl-worm. General remissions on account of failure of cotton had, therefore, to be granted under rule 20 (iii) of the rules under the Canal Act.

The rabi season was practically dry, there being only 0.36 inches of rainfall which occurred in the months of December 1915 and February 1916. Hail stones fell in some parts of the 2nd Division and damaged the crops.

The total area remitted was 22,280 acres including 2,228 acres remitted under Tenancy Rules. The failure of cotton and gram accounted for 13,388 acres, and the balance was due to other eauses.

The canal was closed at its head for 5 days during kharif, and for 13 days during rabi, for special repairs to works.

'the demand for water was keen and the supply sufficient. During February and the first week of March 1916, rotational working of the branches was required for the first time in the history of the canal.

5. The areas, irrigated and assessed, compare as follows with the corresponding figures of the average of the preceding triennium:—

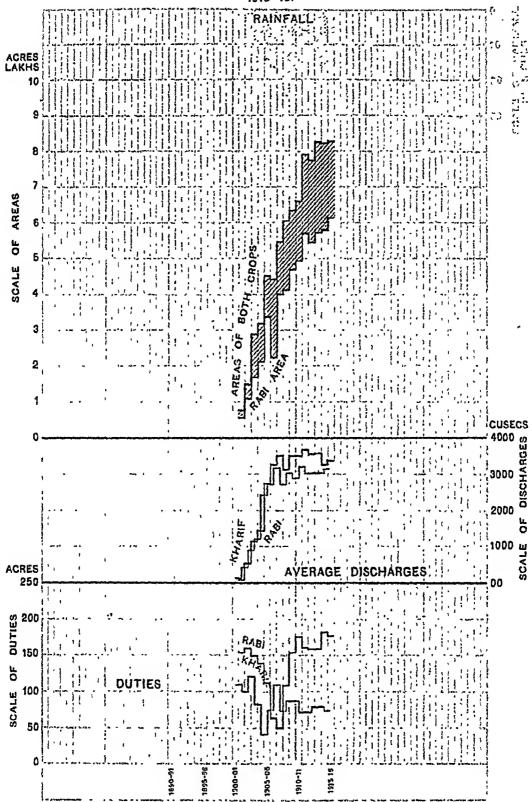
District.			or the thri ing 1914-1		1915-16.		
		Kbarif	Rabi.	Total.	Kbarif.	Rabi.	Total.
Irrigated areas.		Acres.	Астея.	Acres	Acres.	Acres.	Acres.
Gujrat		4,387	8,166	12,553	4,150	9,430	13,586
Shalipur		197,023	478,564	675,597	175,669	517,320	692,908
Ihang	}	41,238	87,082	128,320	37,032	90,560	127,592
Total		242,618	573,812	816,460	216,857	617,319	834,176
Assessed prea	ı.				į		
Gujrat		4,849	-8,1 4 6	12,495	3,088	9,480	18,418
Shahpur		192,896	471,185	664,081	159,882	514,017	073,899
Jhang		36,200	82,780	118,080	34,153	90,426	124,578
Total	•••	233,445	562,11,1	795,556	198,023	613,873	811,896

The decrease in the area irrigated during kharif was due to the causes detailed in paragraph 4 above, and the reason for an increase under rabi was the failure of the winter rains whereby the area that was sown barani had to be matured by the canal.

Out of the total area of 834,176 acres irrigated 377,258 acres were in proprietary villages and 456,923 acres in colony villages.

LOWER JHELUM CANAL.

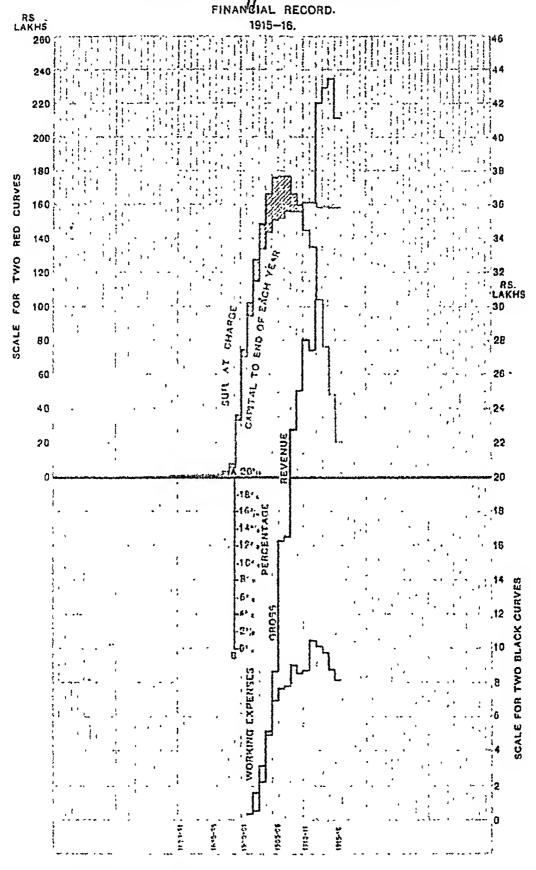
WORKING RECORD. 1915-16.



N. B.—The intercepts in red area give the Kharii irrigation each year. The discharges are measured at mile 14 of the main canal and give averages for each crop.

The duties are derived from these areas and discharges.

LOWER JHELUM CANAL.



N.B.—The intercepts in the red zero show arrears of interest which, added to the capital, give the sum at charge.

The intercepts in the blue area give the accumulated profits.

The scheme was commenced in carnest in 1898-99 and opened in 1901. Until 1905-06 the canal did not pay any interest on its capital cost, this being due to free remissions of water rates on new irrigation.

6. The gross actual receipts (direct and indirect) amounted to Figure 1 results based on collections.

Rs. 41,21,783, the working expenses to Rs. 8,17,859 and the net revenue to Rs. 33,03,924, giving a was about 1 per cent. less than that of the preceding year, due to remissions of about one lakh of rupees on account of failure of cotton in kharif 1915.

The figures for 1015-16 and the average of the preceding three years are compared below:—

Ite	ems.	•		Average triennium. 1912-15.	1915-16.
Direct	Receip	ts.	•		
Occupiers' rates	•••		•••	26,91,323	25,79,783 (a)
Miscellaneous Receipts	•••	•••		55,512	69,657 (<i>l</i>)
Total Direct Reccipts	•••	•••	•	27,16,835	26,49,440
Indirect Receipts	•••	• • •	•••	15,49,099	14,72,343 (c)
Total Direct and Indirect	•••	•••	••	42,95,984	41,21,783
Charges to revenue	•••	•••		9,59,498	8,17,959 (1)
Nett Reven	ne		•••	33,36,436	33,03,024
Percentage on Capital		•••	••	20.90	20.70
Nett revenue less inte	rest	•••	•••	27,99,353	27,63,263
Percentage on capital	•••	•••	•••	17.52	17:37

(a) The decrease was due partly to restrictions of cotton sowings on account of the war; and partly to the general remission aggregating about I lac of rupees, as stated above.

The average rate per aere assessed works out to Rs. 3.18 against 3.38 for the previous triennium.

- (b) The increase under miscellancous receipts was due to larger realizations from—
 - Plantations, water-power, and Miscellaneous.
- (c) The decrease under Indirect Revenue follows the decrease under occupiers' rates.
- (d) The working expenses were about 1½ lacs less than the last 3 years' average. This was chiefly due to the energy shown by the Superintending Engineer and his staff in economising expenditure on maintenance.

The rate per acre of area assessed was Rs. 0.89 against Re, 1.21 in the proceeding trienmium.

7. (a). A new Division called the Project Division was formed on 27th June 1916 for the purpose of remodelling the Lower Jhelum Canal. The object of this special division is to secure uniformity of action and progress throughout the canal in the very important work of bringing the outlet system up to modern requirements and to remodel the canals and distributaries to take advantage of any gain of command that has accrued through the gradual silting processes that have been going on during the 15 years since the canal was opened.

Orders could not be passed on such schemes until the project for the Woolar Lake had been got out, the success of the similar division of the Lower Chenah Canal justified entrusting the work to a specially selected officer who would devote all his time to this subject and thus greatly relieve the Superintending Engineer and the other Divisional Officers, whilst at the same time being at leisure himself to thoroughly study the canal as a whole and make suitable, proposals for its improvement.

- (b) Remodelling the Head Begulator of the Canal.—The water way of the head regulator is to be increased by the removal of the jack piers. Caissons have been designed to close off one bay at a time and thus carry out the work without interrupting the canal supply.
- (c) Woolar Lake Barrage.—A project estimate for this work was prepared in 1915 by Mr. R. E. Purves, C.I.E., late Chief Engineer, Irrigation Branch, Punjah. It is under consideration by the Government of India. The object of the scheme is partly to make good the shortage of supply caused by the Baramula dredging operations and partly to supplement the winter supplies of the Jhelumeriver for the use of the Triple and other canals.
- (d) Another scheme for supplementing the supply of the river is the Kahan Dam. Rainfall and run off statistics are being collected. This, year the run off of the catchment area was approximately 32,500 foot acres.
- (c) Efforts are being made by the Divisional Officers to enforce, with greater rigidness, the rules for the preparation of fields for irrigation to effect the economical use of water these rules have not bren properly observed by the cultivators in the past. Attention is also being paid to village water-course systems over the "Dhayas" or old river banks as these are not at present efficient.

UPPER SUTLEJ' DIVISION INUNDATION, CANALS.

- 1. Expenditure (direct and indirect) amounted to Rs. 11,602, and was incurred mainly on completing the rest-house at Ladhewal and the subordinates' rest-house at Kalewal and on constructing subordinates' rest-houses at Lalugudar and Bunga Hyat.
- 2. Expenditure amounted to Rs. 19,746 and was mainly incurred on constructing 3 new bridges on the Kanganpur, Attari and Chunian distributaries; providing railings to the Gandasinghwala regulator and escape head; constructing outhouses, stables and cook-house at Kaliana, cook-houses at Jiwan Shah and Shahamad, and katcha subordinates' quarters at Tahor; re-roofing Kaliana restributes and making 15 pacca outlets on Khanwah.
- 3. Expenditure incurred was Rs. 2,10,397 and was in addition to the ordinary silt clearances of the Canal head reaches and the ordinary maintenance of all Government channels, incurred on the following special works:—

Excavating a new head reach, Upper Sohag Canal; extending head. reaches of the Lower Sohag and Katora Canals; and regrading and improving the Faridpur, Pakpattan, Gobindpur and Dhapai distributaries.

4. The gross income amounted to Rs. 7.46,103 and working expenses to Rs. 4.09,708, showing a net revenue of Rs. 3,36,395 or 18:50 per cent. on the capital invested as against 14:59 per cent. in 1914-15. This-highly favourable result is due to the record area irrigated in rabi-1914-15.

5. The following tables compares the area irrigated with the averages of the two previous trienna:—

	:	•	Avei	rage of 8 year	RE HNDING.			
Crop.		1911-12.		1914-16.		1915-16.		RFWIELS.
•		Gross.	Net.	Gross.	Net.	Gross.	Net	•
Kharif		1,89,376	1,10;252	1,75,178	1,58,715	1,34,167	1,27,612	
Rabi	,	1,55,748	1,55,715	1,77,888	1,77,899	1,38,559	1,39,559	
Total		2,95,121	2,65,997	3,53,068	3,36,603	2,72,746	2,66,171	

It will be seen that the net area assessed exceeded by 174 acres the average of the triennium ending 1911-12, whereas it is short by 70,432 acres as compared with the average of the 3 years ending 1914-15. Excluding, however, the record year of 1911-15, the net area assessed is less by 22,000 acres than the average of the 10 previous years. Considering the year under review as one of extreme drought the result should be considered satisfactory.

6. (a. The following table shows the dates of opening and closing of the canals together with the corresponding dates of previous year.

Canals	DATE OF	סעוא ויסט	Dars or e	04170.	NUMBER (Ri Wanks,	
	1915	, 191 s.	1915	1914	1915.	1914.	
Kntorn	Foreneon 10-7-15	Afternoon 6-7 11	Afternoon 16-10-15	Forenova 7-10-11 Forenoou	160 !	153	
Khanwah	l'or no u 1 -5 15 l'orencon	Afternoon 19-5-14 Afternoon	Afternoon 28-10-15 Afternoon	13. J.14 Afterno n	16.	116	
Opper Soling	9-5-15 Forcegon	1-5-1 i Afteri oon	14-10-15 Afternoon	15-10-14 Porenoon	159	167	
Lower Solis.	10-5-15	J 5-11		5-10-1 }	us i	154	

(b) Some works of improvement calculated to increase substantially the annual irrigated area were carried out during the year. As a result of these the Katora Canal now possesses two good reserve heads, one of which was actually used towards the end of the last flow season with good effect. Similarly the Upper and the Lower Sohag Canals have been provided with effective reserve heads. The four distributaries which used to give considerable trouble on account of short supply at their tails were regraded and improved with a view to remedy these defects.

SIDHNAI CANALS (INCLUDING THE KORANGA, FAZIL SHAH AND ABDUL HAKIM SUBSIDIARY CANALS.)

1. No expenditure was incurred during the year. A credit of Rs. 966, under the Suspense Account (stock issues to works) was, however, received during the year and this reduced the outlay to end of the year to Rs. 13,30,901.

Settlers account.—The balance of Rs. 2-7-7 at end of the previous year was spent during the year. A further sum of Rs. 31-12-0 on account of repairs to bridges on the Sidhnai Canal was, however, received which will be cleared in 1916-17.

Extensions and improvements,

2. Expenditure was Rs. 10,516
against Rs. 3,856 in the previous year, and
was incurred on works of a minor character.

- 3. Expenditure amounted to Rs. 43,062 against Rs. 69,562 in the previous year, and was incurred on the usual annual repairs, silt clearances and strengthening distributaries.
- 4. The total rainfall at Kabirwala was only 2.72 inches. (2.41 inches in Nature of seasons and state of domand supply.

 Rature of seasons and state of domand supply.

 **Rature of seasons and state of domand

The demand for water was keen throughout the year.

The supply in the Sidhnai and subsidiary canals was abundant during kharif with the exception of the months of June and July during which there was some shortage of water. Indigo and early sowings of jowar suffered to a small extent on this account. During rabi, the river failed very early. The subsidiary canals had to be closed on 23rd October 1915, and the Sidhnai ceased to flow on 3rd November 1915 when the Ravi ran dry.

5. The following table compares the irrigation effected on the whole system with the averages of the two previous triennia:—

`	`		Average of 3 y	MARS ENDING.		
Season.		1911-12. 1914-15.		1914-15.	1915-16.	
Kharif Rabi	***		Rs. 1,10,572 1,47,295	Rs. 1,27,037 1,51,507	R _S . 1,39,677 1,91,982	R _{s.} 1,17.999 1,52,151
	. Total	<i>,</i> \	2,57,867	2,78,544	3,31,659	2,70,150

Although the area irrigated during the year compares, unfavourably with that of the preceding year, it is, nevertheless, well above the average. The percentages of failed area were 1646 in *kharif* and 1806 in *rabi*, large figures, due mainly to scanty rainfall.

6. The total income from all sources amounted to Rs. 8,32,779

Financial results based on collections. against 6,72,544 of the preceding year. The rabi area of 1914-15, being far above the average, conduced to these remarkably large receipts.

Working expenses amounted to Rs. 1,46,592 and net income to Rs. 6,86,187 or 51.55 per cent. on the capital outlay against 5,14,314 or 38.61 per cent. of the preceding year.

The uncollected balance of assessment of occupiers' rates was 3,173.

8. The financial results of the year are eminently satisfactory.

Figures of irrigation show some reduction on those of the preceding year, which was, however, an exceptional one. The rabi area matured in 1916 was remarkably good in view of the small amount of precipitation.

No works of any magnitude are contemplated owing to stringency resulting from the war.

INDUS INUNDATION CANALS.

1. The expenditure (direct and indirect), amounting to Rs, 1,51,024 compared with Rs. 3,326 in 1914-15, and was incurred (a) on the construction of a residential building for the Executive Engineer at Dera Ghazi Khan, (b) the scheme for giving a perennial supply of water for irrivation to the Dera Ghazi Khan Municipality, (c) and the lowering of the bed of the head reach of the Manka Canal.

2. Rupees 117,195 were spent as compared with Rs. 87,713 during the preceding year. Numerous works of a minor nature were completed and the following important works were in progress:—Constructing a retired ring bund behind the Kotla bund; a new head for the Fazalwah canal; the Chhabri and Dhan Sikhani flood embankments; a diversion of the Banuhan Branch, and a new head reach for the Kasturi canal. The Talai flood embankment was raised, and a tie bund between the Manka Canal and Shah Sadar Din was constructed.

- 3. Expenditure amounted to Rs. 1,95,703 against Rs. 1,86,221 in 'the previous year, and was incurred on the usual annual maintenance and repairs, silt clearances of canals, strengthening of certain flood embankments and other miscellaneous works
- 4. The average rainfall during kharif was 1.07 inches and during rabi Nature of seasons, and the of domand 0.85 inches against .93 inches and 2.20 inches, and supply. respectively, during 1914-15. The Indus river gauge at Attock did not, at any time, rise above 32 fect, whereas, in ordinary years, floods of between 40 and 50 fect are to be expected.

The demand was keen owing to scanty rainfall.

Locusts were prevalent during the early part of the kharif, and some damage to crops also resulted from violent winds in September.

The following statement shows the periods during which canals were in flow:—

				Number of		
Nåme o	f caval.		Opening.		Closing.	days canal was in flow.
Massuwalı	•••		1st June 1915		6th October 1915	113
Fazalwah			2nd May 1915		16th October 1915	167
Manka	•••	•••	lst May 1915		17th October 1915	163
Shoria	•••	•••	20th April 1915		9th October 1915	163
Kasturi	•••	•••	1st May 1915		10th September 1915	121
Dhiugana	• •••	•••	10th April 1915	•••	11th October 1915	177
Chibri			1st May 1915		14th October 1915	152
Sahiban	•••	•••	30th April 1915		8th October 1915	149
Gamun	•••	•••	4th May 1915		7th October 1915	139
Nur Dhundi			4th May 1915	•••	20th October 1915	169
Dhundi Kutab	•••		10th May 1915	•••	20th October 1915	163
Kadra	•••		6th May 1915		12th October 1915	163

With the exception of the Manka, Massuwah, Kasturi and Nur Dhundi Canals supplies were, on the whole, favourable, and the Dhingma Canal showed a marked improvement over previous years. The low supply in the Nur Dhundi Canal, due to unfavourable conditions at the off-take, is regretable, as the Dhundi Estate mainly depends on irrigation from this source.

5. The following table compares the areas assessed with the averages of the two previous triennia:—

•		Name of C	ROP.		Average of and		1915-16.
					1911-12.	1914-15.	
Kharif Rabi	•••	4 000		1	Acres. 134,663 82,199	Acres. 119,950 57,021	Acres. 102,147 70.882
		•	Total	• ••• •	216,862	176,971	182.029

The decrease in *kharif* is attributed to the paucity of supply in some of the canals owing to a low river and absence of heavy floods.

This decrease was, however, to some extent, compensated for by the rabi, which is the second largest on record.

6. The total income from all sources was Rs. 4.37.175 against Rs. 4,25,502 in 1914-15, and the total expenditure amounted to Rs. 4,41.584 against Rs. 4,14,151 of the preceding year. There was, therefore, a deficit of Rs. 4,409 against the profit of Rs. 11,351 in the preceding year.

The uncollected balance of the assessment of occupier's rate was Rs. 14,554.

The percentage on the Capital outlay was - Re. 0.14 against Re. 0.4 in the previous year.

7. Financial results are again disappointing, but due regard should be had to the fact that the heads of the canals of this series are subject to changes on a large scale and require heavy expenditure to maintain. Furthermore, prevention of river spill requires the maintenance of many miles of expensive flood embankments, and, although the river at the site of the old city of Dora Ghazi Khan has moved to the east, inroads on the west bank at certain points still continue, notably opposite Dhan Sikhani, Chabbri, Sahiban and Kotla At these sites costly retired works have to be thrown up, and a large slice of the revenue earned by the canals, which, under favourable conditions, might be devoted to works of a remunerative, as distinct from a protective, character, is swallowed up in the process.

During the course of the year the heads of the Fazalwah and Kasturi Canals were reconstructed and remodelled, the latter work disposing of a long outstanding necessity. The new town of Dera Ghazi Khan has been provided with a small perennial water-supply for irrigation by means of pumping. The bed of the Manka Canal in the upper reach of over 20 miles was lowered by about 1 foot, by which means the capacity of the canal is increased and the areas at the tail will benefit accordingly. This work, which cost over one lakh of rupees, provided labour for those hit by the scarcity prevailing in the district at the end of the hot weather of 1915, owing to failure of the monsoon rainfall.

The principal works of importance under contemplation are:

- (a) A syphon to carry the Fazalwah across the Manka Canal for irrigating high land uncommanded by the latter.
- (b) Amalgamating the Sohan Branch with the Gamun Canal to improve irrigation on the Lower Dhundi and Sohan.
- (c) Constructing the Akilpur Minor for irrigation of land at present insufficiently supplied with water.

Minor Irrigation Works.

SHAHPUR (IMPERIAL) INUNDATION CANALS.

Capital account.

1. No expenditure was incurred during the year.

Extensions and improvements.

2. The expenditure amounting to Rs. 258 was incurred on minor works only.

Maintenance and repairs.

- 3. Expenditure to the extent of Rs. 25,157 was incurred on silt clearance and usual maintenance and repairs.
- 4. The rainfall during the year was 3.53 inches against 24 43 inches and sure and senson and state of demand in the previous year. During kharif the rainfall was 3.15 inches and during rabi 0.38 inches. The kharif rainfall occurred in April 0.72", May 0.51", June 1.05", July 0.52", August 0.29" and September 0.06". During rabi the months of October, November and December were quite rainless, and the showers in January, February and March 1916 only aggregated to 0.38 inches.

Owing to low supply in the river, the water failed to enter the canals on 2nd September, but on account of an abnormal flood in the river in October the canals again flowed for four days and after that ceased to flow finally for the rest of the year.

Area irrigated.

5. The irrigation of the year compares as follows with the averages of the two previous triennia:—

garantee Affician and a second a	Seaso	ON.		Avenage for 1		Actual for
				1911-12.	1914-15.	1915-16.
**************				Acres.	Acres.	Acres.
Kharif	•••	•••		11,287	18,786	9,429
Rabi	•••	•••		20,797	24,695	17,330
		Total	•••	32,084	43,481	26,759

The area successfully matured and assessed was 23,047 acres as against 40,953 acres, the average of the previous triennium the decrease being due to unfavourable rainfall and to the inadequate river supply, as well as to the heads of the Eastern and Western Station Canals not having worked satisfactorily on account of a change in the position of river during flood and consequent silting-up of the feeding creek.

Revenue was remitted on 3,712 acres; of this 862 acres were due to short supply in July, August and September 1915, 202 acres were damaged by hail stones, 1,076 acres remitted on account of general remissions on the cotton crop, and 1,572 acres for bad seeds, poor soil, bad germination, insects and blight.

6. The gross revenue realized amounted to Rs. 92,201 and working expenses to Rs. 52,887, leaving a nett revenue of Rs. 18.20 per cent. on the Capital outlay to date.

Details compare as follows with the averages for the preceding triennium:—

		Details.		••	Average 3 years ending 1914-15.	Actual, 1915-16.
			,		Rs.	Rs.
Receipts direct	•••	•	•••	١	90,282.	77,094
" indirect	•••	***	•••	•••	17,704	15,107
•		Total			1,07,986	92,201
Working expenses	4.	*	,	; }	59,024	52,887
Net revenue	•••	•••	400	, , , , , , , , , , , , , , , , , , ,	48,962	39,314
Percentage of net	revenu	e on capital			, 22.68	18-20

The decrease under revenue is due to less irrigation and larger remissions owing to the unfavourable season.

GHAGGAR CANALS.

1. The expenditure amounting to Rs. 19 was incurred on B—Land-This brought the total cost to date to Rs. 6,61,571 (Rs. 3,76,129 under "Imperial" and Rs. 2,85,442 under "Contribution").

Extensions and improvements.

2. Expenditure was Rs. 2,908 under "Imperial" and Rs. 1,193 under "Contribution," and was incurred on petty works of improvement.

- 3. Expenditure was Rs. 11,643 under "Imperial" and Rs. 2,548 under "Contribution" as compared with Rs. 7,675 and Rs. 1,722, respectively, for the preceding year. The excess was chiefly due to heavy repairs to the lake protective pitching and to the Head Regulators and Escape Head.
- A. (a) Kharif.—Rain started in June and was general between 6th and Nature of seasons and state of demand 21st June in both the British and Bikaner areas. The fall of 1.6 inches recorded on 14th June 1916 at Mojukhera was the heaviest in British territory. July was practically dry. There were light showers in British and Bikaner areas during August and September. The rainfall on the whole was considerably in defect on the Ghaggar area. Water reached Otu weir on 18th June but the lake supply remained very low and the channels could not be properly opened till the middle of August and then only with very low discharge for a few days only. The lake did not fill till 20th September, hence the kharif irrigation was practically a failure. The supply in the lake was good at the end of September and the first half of October, and a good rabi crop was, therefore, put down.
- (b) Rabi.—The lake was unwatered by 1st November to permit of sowings in the lake basin. There was no rain during the rabi season, except light showers. The largest amount of rainfall recorded was 0.5 inches at Kamrani in Bikaner area on 1st February.

(c) Rainfall.—The average rainfall of all stations for the year was—

British ... 3.15 inches.

Bikaner ... 2.2 ,

against British 16:50 inches, Bikaner 19:65 inches during 1914-15. Water was escaped down the river from 22nd to 27th September and on 3rd and 4th October only. The Northern and Southern Canals ran for 27 and 30 days during kharif and 23 and 26 days during rabi with average discharges of 133 and 207 cusecs, respectively.

5. The following table shows the area irrigated in British and Bikaner Territories during the past 5 years ending 1915-16.

The area in British territory includes area assessed by the Civil Department.

		1911-12		,	1912-13	•	1	1913-14	•		1914-15			1915-16	
Crop.	Velesh,	Bik ner.	Youes Total	Votes British.	Phyner.	Total	Y c.c.s.	Bikaner.	Cres,	<u> </u>	Acres.	roca Total.	Veces'	Bikener.	Youes.
Kharif.	208'¢	, Mil	3,903	21,825	2,465	20,090	9,690	5,115	14,805	081.e	1,663	10,993	4,218	12	4,230
Rabi.	2,691	Isi!	2,691	17,537	4,914	22 151	3,035	1,720	4,755	15,060	6,103	21,163	17,788	3,156	75°02
Total.	6,593	Nii.	6,593	11,352	7, 79	48,531	12,725	6,935	19,560	งยะ'รส	8,066	32,156	22 006	3,168	25,174
f days canal	Norther Ghig Canal	n gar	117		46			73			102			50	
Total number of days canal was in flow.	Souther Ghag Caual	er Ser	117	•	. 32			80			100			56	

The figures for 1913-14 to 1915-16 did not include the area under "palaver" whereas the areas for the previous years included it. The "palaver" area excluded in 1915-16 was 7,198 acres which were watered but not sown and on which no water rates were charged. Including "palaver" area, therefore, the

total area was 32,372 acrcs. The land under fluctuating assessment is not subject to water rates but the canals receive a credit for any fluctuating revenue in excess of Rs. 37,000 per annum. As, however, this sum is very seldom even nearly approached the canals receive no revenue whatsoever for the greater part of the irrigation which they do.

The amount of occupier's rate assessed was Rs. 958 in kharif and Rs. 17,550 in rabi and the rate per acre assessed works out to Rs. 3.1 and Rs. 2.4, respectively.

6. The operation of the year resulted in a loss of Rs. 18,473 which is equivalent to 4.91 per cent. on the Capital outlay compared with a loss of Rs. 23,134 equivalent to 6.15 per cent in the pervious year. So long as the canals receive no revenue for the greater part of the irrigation which they carry out, they cannot be expected to be remunerative.

The greater part of the revenue for the irrigation is credited to Civil Department and not to the Irrigation Department

7. (a) The result of the year's working would have been satisfactory if all irrigated land paid water rate. The canals were in flow for 53 days only during the year against 120 days in 1914-15 and 100 days in 1913-14.

The area remitted in British Territory was 40 acres in kharif and 149 acres in rabi. The approximate value of crops matured on the Ghaggar Canal in British Territory amount to Rs. 5,67,751 against Rs. 10,79,727 in the previous year. The principal crops grown are wheat and rice.

- (b) Nature and scope of contemplated new work and progress made on the preparation of new projects.—The work of raising of the reservoir level by 3 feet which was held in abeyance in 1914-15 was again taken up during the year, but the final decision will probably depend on what areas will be taken up by the Bhakra storage dam scheme now under investigation.
- (c) Working Canals in the Bikaner State.—Water was given to the Bikaner State in accordance with the indents received, but as usual these indents were far below the share of the water due to the State. It is believed that the State Channels are in such inefficient order that they are incapable of holding large supplies without breaching. It is also stated that a great deal of the water supplied was really turned out into the Talwara Jhil and was not used for irrigation at all; but as the whole supervision of channels and revenue within State territories is done by State officials, no definite information on the failure to get better rabi irrigation results can be given:—

The following details of irrigation have been supplied by the State—

			7	915-1916	•	,	1914-15,	
	Canals.		Kharif.	Rabi.	Total.	Kharif.	Rabi.	Total.
Northern (12	1,999 1,157	2,011 1,157	1,223 440	4,984 -1,419	6,207 · 1,859
	Total	•••	12	3,156	3,168	1,663	6,403	8,066
Flow Lift	•••	•••	12	3,156	3,168,	1,663	6,403	8,066
	Total as above	•••	12	3,156	3,168	1,663	6,403	8,066

The following table shows the working of the Canals as reported by the State:-

		Particul	ars.	•		1914-15.	1915-16.
		Receip	ţe.				
Water rate Miscellaneous	•••	•••	• • • •	•••	•••	20,958 175	8,408 [.] 154
aniscenance us	•••	•••	•••	Total	•••	21,133	8,562
		Working E	xpenses.				
Establishment Other Expenses	•••	•••	•••	•••	•••	1,784 6,313	2,913 8,908
				Total	•••	8,097	11,821
Profit or Loss (N	Tet)	•	•••	•••	***	+13,036	-3,259
			Total	as above	•••	21,133	8,562

Adding Rs. 4,764 debited to the Bikaner State on account of share of expenditure on the Ghaggar Canals it appears that the State suffered a loss to the extent of Rs. 8,023 on the year's operation against a profit of Rs. 9,333 in 1914-15 and Rs. 464 in 1913-14.

LOWER SUTLEJ INUNDATION CANALS.

1. The canals are classified under "43 Minor Works and Navigation" capital account is kept.

Extensions and Improvements.

2. Exponditure amounted to Rs. 54,227 mainly incurred on the following works:—

Diversion [of the Muhammadwah Canal above Abanwah syphon. Second diversion of the Muhammadwah Canal.

Diversion of the Mailsi Canal near Salol, and converting the Sahuka Bridge over the Hajewah Canal into a regulator.

With the exception of the last mentioned these works were necessitated by river increachments.

- Mainfonance and repairs.

 3. Expenditure amounted to Rs. 1,11,535 against Rs. 1,24,449 during the preceding year.
- 4. The year was remarkable for scarty rainfall; that recorded at LodhRature of scessoms and state of domand against 7.43" and 2-05" respectively, in the preceding year.) In the Mailsi Sub-Division only one light shower occurred in June, and, apart from this, no appreciable rain fell throughout the year.

As may readily be understood the demand for canal water was very keen. On the whole, the supply of water in the Sutlej was satisfactory and there was a marked absence of heavy floods.

The following statement shows the dates of opening and closing of the canals:—

	Dati	ES OF	No. of days canal
Name of canal.	Opening.	Closing	was in flow.
Hajiwah ·	11th May 1915	10th October 1915	151
Mailsī	13th May 1915	4th December 1915	109
Muhammadwah	2nd May 1915	15th Nov. 1915	198
Bahawalwah Lodhran	11th July 1915	21st October 1915	179

The Hajiwah Canal failed early on account of the river breaking away from the off-take and leaving it high and dry. The Mailsi Canal suffered from a breach in August, which was closed with some difficulty. The Muhammadwah Canal worked very satisfactorily, not only meeting its own requirements, but, in addition, supplementing the supply in the Bahawalwah Lodhran Canal by means of the cut which connects the two channels.

5. The following table compares the areas irrigated and matured in 1915-16 with the averages of the preceding triennium:—

			•		Average re	or 3'yrars 1914-15.	1915	-16.	
Season	Season.		. Canal.		Irrigated.	Matured.	Inigated.	Matured.	
					Acres.	Acres.	Aores.	Acres.	
771 P		(Hajiwah	• • •	16,0u ⁹	13,223	12,465	7,460	
Charif	191	{	(Sutlej Canals	•••	125,368	106,388	109,870	84,208
-1			Total	•••	141,877	119,611	. 129,335	91,668	
n.l.!		5	Hajiwah	•••	28,019	25,475	14,944	13,767	
Rabi	•••	1	Sutlej Canals	1	131,957	126,193	146,203	-186,878	
			Total	•••	150,976	151,668	161,237	150,145	
			GRAND TOTAL	, •••	301,363	271,270	283,572	241,818	

The total area which failed to mature was 41,759 acres, viz., 30,667 in kharif and 11,092 in rabi. This is greater than that in the year 1913-14 and 1914-15 but is less than the area remitted during any of the years 1901-02 to 1912-13. Failure was due largely to deficient rainfall.

6. The total income from all sources was Rs. 6,21,610 against Rs.6,31,012 in 1914-15, and the total expenditure Rs. 2,85,454 against Rs. 2,74,494 in the preceding year. The net income amounted to Rs. 3,36,156.

The uncollected balance of assessment of occupier's rate amounted to Rs. 177 only.

7. The gross area irrigated, though less than that of the preceding year was greater than any of the years 1909-10 to 1913-14. The results of the year's operations were, on the whole, satisfactory.

The question of safeguarding the Sutlej Valley Railway from River inundation in the neighbourhood of Jamlera and Joya was investigated and some works were carried out on behalf of the Railway Department.

No new works are being undertaken on the Lower Sutlej series beyond those required to maintain the statu quo as these canals will probably eventually come under the scope of the Sutlej Valley Project.

CHENAB INUNDATION CANALS.

Capital account,

- 1. No Capital account is kept for these canals. They are classified under "43—Minor Works and Navigation."
- 2. Expenditure of Rs. 11,214 against Rs. 12,430 in 1914-15, was incurred mainly on constructing the Qutabpur distributary from the Wali Muhammad Canal, and acquiring land on the Wali Muhammad Canal.
- 3. Expenditure was Rs 1,05,891 against Rs 1,20,426 in the preceding year, incurred on ordinary silt clearances of eanals, repairing breaches and strengthening banks of cauals.
- 4. The total rainfall at Multan and Sluijabad was 0.61 and 0.85 inches, respectively, against 10.10 and 10.95 inches during the preceding year. The Chenab river was very low both at the beginning and end of the season, and high floods were conspicuous by their absence.

The following statement shows the dates of opening and closing of canals:—

			Dat	els of
Name of	canal.		Opening.	Closing.
Matithal			5th May 1915	11th September 1915
Daurina Langana	•••		28th April 1915	12th September 1915
Wali Mohamad	•••		29th April 1915	11th September 1915
Sikanderabad	•••		18th April 1915	26th October 1915
(In inhatta			19th April 1915	20th October 1915
/201 2012-1-1-1-1		•	11th May 1915	3rd September 1915

The canal requiring water earliest is the Sikanderabad, as it has more indigo than any other and also irrigates a large acreage of garden lands. It was opened in April as usual and worked very satisfactorily. The Gajuhatta, which depends on the Sikanderabad for its supply, also worked excellently. The Balochanwah was opened late and failed early owing to silting up of the creek from which it draws its supply. The Matithal was a failure due to silting up of the head. The off-take of this canal is very unfavourably situated, at the confluence of the Chenab and Ravi. It cannot be carried further upstream for this reason. The Wali Mohammad, which irrigates a large number of gardens in the neighbourhood of Multan city, and the Daurana Langana canal had to be

worked in rotation as the supply was insufficient for both. These canals have not been entirely satisfactory of recent years and, as the off-take is situated near the confluence of the Chenab and Ravi, there is little scope for remedial measures.

5. The following table compares the areas irrigated with the averages Area irrigated. of two previous triennia:—

		•	Averagii of ent	THREE YEARS		,
,	Season.		1911-12.	1914-15.	1914-15.	1915-16.
		•	,	•		
Kharif	144	,. •••	99,819	100,548	103,977	84,107
Rabi	***		90,481	99,582	115,421	86,378
	Total		190,800	200,130	219,398	170,485

The total area which failed to mature was 28.633 acres, viz., 26.53 per cent. of the total area irrigated during kharif and 7.31 per cent. in rabi against 17.40 and 6.12, respectively, in the preceding year. These large percentages are mainly to be accounted for by the low river and scanty rainfall.

6. The total income from all sources was Rs. 4,71,364 against Rs. 4,85,893 in 1914-15, and the total expenditure was Rs. 1,72,292 against Rs. 1,87,476. The net income was, therefore, Rs. 2,99,072.

The uncollected balance of assessment of occupiers' rates was Rs. 3,205.

7. The area irrigated was slightly below the average. Rainfall was practically nil but in spite of this fact crops were remarkably good, the wheat outturn being better than that of the previous year.

.. No new works of any magnitude are contemplated pending further orders regarding the Haveli Project.

The effect of the abstraction of water from the Jhelum and Chenab rivers for the Triple Canals is receiving attention.

MUZAFFARGARII INUNDATION CANALS.

- 1. No capital account is kept for these canals. They are classified under 43—Minor Works and Navigation and Agricultural Fund.
- 2. The expenditure amounted to Rs. 24,170 against Rs. 36,026 in the preceding year and was incurred mainly on completing and extending the piping and remodelling of channels, building new regulators, falls, stop-dams, profile walls, remodelling old bridges and digging new subsidiary feeders and heads for canals.

In addition to the above, Rs. 9,859 were spent from the "Agricultural Fund" on the extension and strengthening of bunds and completing works in progress at the end of the preceding year.

3. The expenditure amounted to Rs. 1,96,207 against Rs. 2,14,570 during 1914-15 and was spent on the ordinary silt clearances of canals, repairing breaches, strengthening and raising banks and bunds and improving supplies in channels.

In addition to the above Rs. 17,233 were spent from the "Agricultural Fund" on repairs to rest-houses and to the Puran Tie Bund.

A. Rainfall was very deficient throughout the year. The rivers were abnormally low and there were no high floods. Nevertheless a good steady supply was maintained in all the canals except the Ganesh (from the Chenab) and the Suleman from the Indus). The failure of the Ganesh was due to the silting of the feeder and there was difficulty in maturing the kharif. In the Suleman, the supply was short at the beginning of the season owing to heavy erosion and consequent shoaling of the feeder. The Kot Sultan had an excellent supply throughout and in consequence it irrigated an area greater than usual and matured all but 2.4 per cent., against 10.7 of the year 1914-15.

The following statement gives the period during which the canals remained in flow: --

	Name o	of Canal.		Dates of openir	ıç,	Dates of closing	Nunber of days canal was in flow.
Indus	Series	Kot Sultan Magasson Maggi Ghuttu Puran Suleman	311 311 41	29th April 1915 5th May 1915 5th May 1915 2nd May 1915 28th April 1915 2nd May 1915		23rd December 1915 15th October 1915 15th October 1915 15th October 1915 9th November 1915 10th October 1915	239 164 164 167 196 162
Chenab	Series {	Karam	•••	4th May 1915 5th May 1915 9th May 1915	•••	6th September 1915 15th September 1915 21st September 1915.	125 132

5. The following statement compare the areas irrigated during 1915-16, with the averages of the two previous triennia:—

		Avenage Endi	FOR THRE ENG 1911.		Arenagn:	rob ince 190 1914-	e Years 15.	1915-16.			
Soanou.	•	Matured area.	Failed area.	Fercentage of kharalia.	Natured aren.	Falled area	Percentage of kharaba.	Matured area.	Failed area	Percentage of kharaba.	
		Acres.	Acres.	Acres.	Acres.	Acres.	Acres,	Acres.	Acres.	Acres.	
Kharif		136,614	24,883	15.4	133,668	24,205	15.8'	126,751	11,228	8·1	
Rabi		199,185	18,984	6.6	209,376	13,667	6.2	225,283	14,183	5.9	
Total		385,699	38,867	10.4	312,044	37,572	10.0	351,984	25,411	6.7	

Although the area during the year fell short of that irrigated in 1914-15, the area matured was greater. A satisfactory feature of the season's operations

is the low percentage of failed area, viz., 6.7 per cent. against 14.0 per cent. of the preceding year and 10.4 per cent. of the previous triennium. The total area irrigated during rabi 1915-16 is the highest on record.

6. The total revenue collected amounted to Rs. 6,46,213 against Rs. 6,39,013 in 1914-15, and the working expenses to Rs. 3,57,977 against Rs. 3,90,082. The net revenue amounted to Rs. 2,88,236.

The uncollected balance of the assessment of occupier's rate was Rs. 187 only.

7. The total area irrigated was the third largest and the area matured the second largest on record while the failed area was lower than that of any previous year since 1901-02. The results of the year's working are, therefore, eminently satisfactory.

There was a marked reduction of swamping, largely due to the absence of high floods in the Indus.

The Sanawan drain, to which reference was made last year, continues to work well and is proving a useful object lesson to the people of the value of drainage. The Tall Masti and Sindhri drainages have been cleared and improved with satisfactory results.

The people are inclined to be blind to their own interests and to resent attempts to curtail the too lavish supply of water to tracts, liable to deterioration on account of rise of sub-soil water level. As they put it themselves, they prefer to die from drowning than from thirst. Fortunately the winter period, during which canals are closed and rivers are low, goes for to aid these lands in recovering from over saturation.

Satisfactory progress continues to be made in the substituation of iron pipes for open cuts and the cultivators at the tails fully appreciate the benefits derived from this procedure.

A new feeder for the Suleman canal from the Indus was dug during the year at a cost of Rs. 15,000, which, it is hoped, will greatly improve the supply of this canal.

SHAHPUR (PROVINCIAL) INUNDATION CANALS.

Capital amount.

1. No capital account is kept for these canals.

Extensions and Improvement.

2. No expenditure was incurred during the year.

Maintenauce and repairs.

3. Rupees 19,349 was spent on maintenance and repairs, and on silt clearance.

The rainfall for the year was a failure, being only 3.43 inches as against 24.43 inches in the preceding year.

Nature of sections and state of domand Demand for canal water was naturally very keen. Supply in the river was insufficient.

The dates of opening and closing the canals were as follows:-

Opening. Closing.

Raniwah ... 21st April 1915 4th October 1915

Corbynwah ... 19th April 1915 10th September 1915

The corresponding dates of opening and closing averaged over the preceding 21 years were as follows:—

Opening. Closing.

Raniwah Canai 15th April 1915 -14th September 1915

Corbynwah , 17th April 1915 12th September 1915

The Raniwah opened a week later and closed 19 days later than the average dates of the past whilst the Corbynwah opened 2 days later and closed 2 days earlier than the past average.

5. The area irrigated compares as follows with the averages of the two preceding triennia:—

	Season.		Average of three years ending 1911-12.	Average of three years ending 1914-15.	Year 1915-16.
			Aeres	Acres.	Acres.
Kharif	•••	***	14,505	20,660	4,527
Rabi .	•••		8,952	10,351	14,367
	Total	••	23.457	31,011	18,894

The figures for the kharif and rabi crops are not comparable with the averages of the two previous triennia because Executive Engineer, 1st Division, Lower Ihelum canal, transferred the whole kharif irrigation of grass to the rabi khatauni so as to have only one assessment kha ra and khatauni for the year instead of two, but as this procedure was against the orders laid down in rules 20 and 21 of Sir James Wilson's rules for the assessment on Shahpur Canals, orders have been issued to the Executive Engineer to comply with the above rules infuture.

The considerable falling off of area from the averages of the last two triennia is due to the shortage of river supply and lack of rainfall.

Revenue was remitted on 1,164 acres (689 acres under tenancy rules and 475 acres for bad germination and bad cultivation).

6. The revenue receipts and expenditure of the year compare as follows with the figures of the previous triennium:—

	Details.	•	Average, tricunium 1912-15.	Year 1915-16.
Total assessment (direc	t and indirect)		Rs. 61.553	Rs. 34,241
Receipts (direct and in	direct)		58,218	36,359
Working expenses			34,102	40,953
	Net revenue		24,116	-4,594

There was a loss of Rs. 4,594 on the year's working which is due to lack of supply and rainfall during the year as well as to the fact that a considerable part of the area is irrigated free of water rates under tenancy rules. This area amounts to 689 acres.

7. (a) During the year an attempt was made to economise on working expenses by leaving gaps at the bottoms of all stop-dams where supply is headed up into distributaries, so as to keep greater silt carrying power in flow of the channels, lessen the deposit of silt there, and secure its being carried on into water-courses: the year was too abnormal for any firm conclusion to be drawn.

- (b) Irrigation throughout the system is by means of open cuts in the banks; the substitution of outlets has never been attempted as it is considered better not to hinder the free flow off of flood supplies; but as opportunity arises for doing so, with the consent and at the expense of zamindars, outlets of V form are being made here and there, consisting of a notch giving a reasonable supply with ordinary flow passing. the open shoulders of which will pass off a share of any excess during floods.
- (c) The tail of the creek on which the Raniwah depends for its water
 Received Canal.

 Supply took a short cut to the river, leaving the Western Feeder almost dry. The river has a set on the mouth of the creek and has thrown a great silt bar across it. A new head may have to be constructed soon, for so long as the bend in the channel continues, the conditions of supply are likely to remain unfavourable.

The creeks feeding this canal have also been silting up. Data of river levels are being collected to consider the question of constructing new heads.

RAVI INUNDATION CANALS.

In the Administration Report for the year 1914-15 it was stated that the only canal doing irrigation as an Inundation Canal under this system was the Jherku Canal in the Montgomery District. During the year under review this Jherku Canal was also excluded from the operation of the Punjab Minor Canals Act (Act III of 1905) and the area irrigated from that canal was brought under the command of the Lower Bari Doab Canal working under the Northern India Canal and Drainage Act (Act VIII of 1873).

Thus the Ravi Inundation Canals now cease to exist.

SIMIA; T. R. J. WARD,

The 26th September 1916. Chief Engineer, Irrigation Works, Punjab.

GOVERNMENT OF THE PUNJAB. PUBLIC WORKS DEPARTMENT.

IRRIGATION BRANCH.

PART II.

STATISTICAL STATEMENTS FOR THE YEAR 1915-16.

TABLE OF CONTENTS.

	1	Page.
I A.	Statement of Canals in the Punjab	2-3
IB.	Capital Account of the Irrigation Works in the Punjab Province for, and to end of, 1915-16.	41
10.	Statement showing Financial Results of Irrigation Works in the Punjab for the year ending 31st March 1916.	57
II O.	Statement showing the Financial Results of Irrigation Works in the Punjab Province for, and up to the end of, 1915-16.	8-9
III C.	Demands and Realizations, 1915-16	10
IV C.	Financial Results based on Assessments	11
I D.	Statement of Traffic on Canals in the Punjab during the year 1915-16.	12
II D.	Description and Quantities of Rast Trassic on Canals in the Punjab during the year 1915-16.	13
E.	Area irrigated on the Punjab Canals during 1915-16 with Appendices A and B, showing areas on which Occupiers' Rates and Owners' Rates were remitted.	14—20
II E.	Incidence of Working Expenses and Assessed Water Revenue during 1915-16.	21
III E.	Quantity and Value of Crops irrigated during 1915-16	22—25
IV E.	Comparative Statement of Irrigation and Rainfall during 1914-15 and 1915-16.	26—7
IF.	Statement showing Occupier's Rate and Owner's Rate in force on the Canals in the Punjab during 1915-16.	28-40

,					SIALE	Major I	RRIGATION
	Conel, ires	Sidenna	CANAL.	Donb	Doah		
Particulars.	Western Jumna Canal, including Sirsa Branch, British and Patiala.	igh.	atiala, Nabba and Jind States.	or Bari usl.	Bari	Uppor Chonab Canal.	Lower Chenab Canal.
	N A A A	British.	P A N	Oppor	Lower ' Cai al.	, dub	Low.
1 ,	2	3	4	5	6	7	8
Source of supply	. Jamas.	Sal	laj.	Ravi.	Ravi and	Chanab.	Chenab.
Minimum dis- Ever recorded, entire feet pe		2,7	80	1,272	Chenab.	3,864	9,894
charge of rivor During the year ,, ,,	2,167	3,3	95	1,975	220	4,334	4,323
ſAs designed """	6,178	3,840	2,160	5,000	6,750	11,742	8,813
Maximum dis- charge of canal, Now authorised ,, ,,	6,430	5,431	8,080	6,700	· · ·	11,674	10,730
During the year ,, ,,	6,121	8,7	41	6,700	1,970	9,817	10,093
Average annual rainfall Inches	(a)29·58	(8)18-25	(8)18 11	(a)21·13	(<i>k</i>)34·93	(e)22·37	(c)11·94
Gross area commanded Acres	2,735,268	2,565,132	1,954,560	1,782,560	1,561,590	1,580,859	3,323,210
Culturable area commanded ,	2,315,077	2,273,467	2,629,000	1,594,346	1,291,198	1,501,848	2,633,800
Area proposed to By complete project ,,	893,555	763,442	420,000	821,665	823,004	631,440	1,496,568
nually. At present "	893,555	750,000	420,000	821,665	751,055	539,936	1,496,568
Sanctioned Estimate—							
Direct charges Ra.	1,05,64,289	2,29,18,999	1,44,67,175	1,57,23,565	2,16,69,940	3,61,31,593	2,55,81,175
Indirect charges 11	7,50,277	12,70,126	411	***	6,58,452	12,25,441	8,31,791
Interest during construction , ,,	34,27,795	87,03,620			84,29,947	71,03,563	66,50,277
Total Estimate "	1,47,32,341	3,25,90,745	1,44,67,176	1,57,23,566	2,57,68,349	4,44,60,592	3,31,65,243
Direct charges	1,80,42,823	2,43,45,111	1,43,02,035	2,11,30,492	2,06,66,984	3,35,24,503	3,10,82,899
Exponditure to Indirect charges ,	8,10,188	12,11,417	***	7,42,005	4,15,028	8,77,090	7,63,861
end of 1915-16.] Interest during con-	82,03,961	85,45,401	.	1,64,97,038	32,06,967	71,68,665	64,52,313
Total Exponditure ,	2,20,61,977	3,41,01,959	1,43,02,005	3,83,69,585	2,42,88,859	4,16,90,261	3,82,49,093
Works as now sunction ed-							
Main Canals, irrigation Miles	82	3	9	30	7	470	S 40
Eranch Caaols ,,	243	279	219	295	5 · 131	, 170	357
Branch Feeder Canals "		•••		16	•••	,	•••
Lower Chantang Nala Canal ". "	4		100 .	***			•••
Distributaries, irrigation ,,,	1,830	1,539	1,811	1,584	1,050	1,134	2,287
Lower Chantang Nala Canal Distributaries ,,	45		•••	•••			•••
Of above—	I	- 3	11./	,			
Navigable Cljannels ,,	232	92	46	***	***	•••	***
Works completed to end of 1915-16-							
Main Canals, irrigation ,,	82.	8:)	30	7	170	5 40
Branch Canals ,,	243	279	. 219	295	} 131	170	327
Branch Fesder Canals "				° 16			•••
Lower Chantang Nala Canal, ,,	8		 ·				•••
Distributaries, irrigation "	1,830	1,589	1,811	1,564	1,044	1,051	2,287
Lower Chantaug Nala Caual Distributaries	45		***]	•••	'		•••
Uf above-	1						

Nore.—Miles shown in this statement
"Salampur and
(a) Average rainfall for the last 37 years
(b) Ditto ditto 32 do.
(c) Ditto ditto 26 do.
(d) Ditto ditto 14 do.
(e) Ditto ditto 3 do.

A. IN THE PUNJAR.

works.						M	INOR IRR	IGATION WO	orks.		
Upper Ihelam Canál.	Lower Ihelum Chaal,	Opper Sutley Canals.	Sidhnei Gaunle.	Indas Ioundation Canals.	Shahpur (Imperial) Inuud 11ions Cauals,	Unaggar I	ROITADRUUK. Birono Frito.	Lower Satinj Innuda- tion Can 8.	Chenab Inundation Canals.	Mucaffargark Inanda- tion Canals,	Shahpur (Provincial) Inuudatiou Canels.
9	10	11	12	13	14	15	16	17	18	19	20
Jhelum	Jbelpm.	Satlej.	Ravi.	In lus.	Jhelum.	Q b	ag.	Sutlej.	Chenab.	Indus and Chonzb.	Jhelum.
Not reported {	4,772 2,795	3,001 4,319	The river runs dry.	25,074	4,772 2,795	The river	. (3,001 Not recorded,	3,4 3 2 5,600	12,671 Not recorded.	4,772 2,793
8,500	3,500 { K 3,750 R 3,750	4,935	2,605	Not known 6,982	1,100 1,100 636	1,000 1,100 1,162	600 600 267	5,655	5,163 5,713	7,531	933 933 523
Not reported	3,526 (d) 11:75 1,355,309	32,367 (f)9 85 989,730	2,615 (g)6 63 980,077	(A) 6 56 879,105	(g)14'31 67,087	(f) 9 1 86,321	(j)12 52 41,901	7,391 (3)5:33 918,208	(A)0 01 453,473	(a)5·15	(g) 13 51 60,929
538,106 568,008	1,162,465	899,836 319,697	311,159 150,000	422,923	62,053 47,750	72,978 48,831	81,618 17,309	995,152 250,000	360,313	674,932 350,000	53,253 27,000
327,925	668,921	329,181	150,000	305,760	42,000	46,831	17,809	250,000	200,000	350,000	21,170
4, 3940,233 10,56,277	1,83,95,782 6,83,246	13,36,378 46,400	9,62 393 37,092	6,87,907 19,729	2,05,933 9,081	10,025	3,07,355	•••		***	***
73,20,746 6,16,17,397	82,58,554 2,22,62,512	13 62,778	89,095 10 38,561	7,07 635	2,15,074	3,69.720	3,07,305				
4,15,91,096 7,79,823	1,65,76,6*1 3,89,121	17,17,351	12,90,741	28,93,360 79,946	2,05,903 9,981	3,65,037 10,792	2,86,412	***	•••		•••
71,29,183 4,94,90,303	67,65,259 2,27,31,051	8,97,090 27,05,471	2,12,511	36,59,518	2,15,914	3,76,129	2,85,412		***		***
E3	39	326	GS	443	53	44	53	400	207	618	. 39
,'	191	111						100	***		
] "'	1 011	 395	••• 252	303	 72	35		318	63	737	 55
	,		414	***	•••		•••			***	•••
. 83	39	326	CS	413	53	43	63	400	267	418	35
. 5	152								404		18 •••
,	1,011	395	 253	303	 72	34	 !**	 318	 G3	 707 ·	 53
			•••		***				***	,	
			<u> </u>			1					

are canal inites of 5.000 feet.

Faridangar Channels.

17) Averaga reintal for the last 23 years.

(6) Ditto ditto 27 da.

(h) Ditto ditto 49 da.

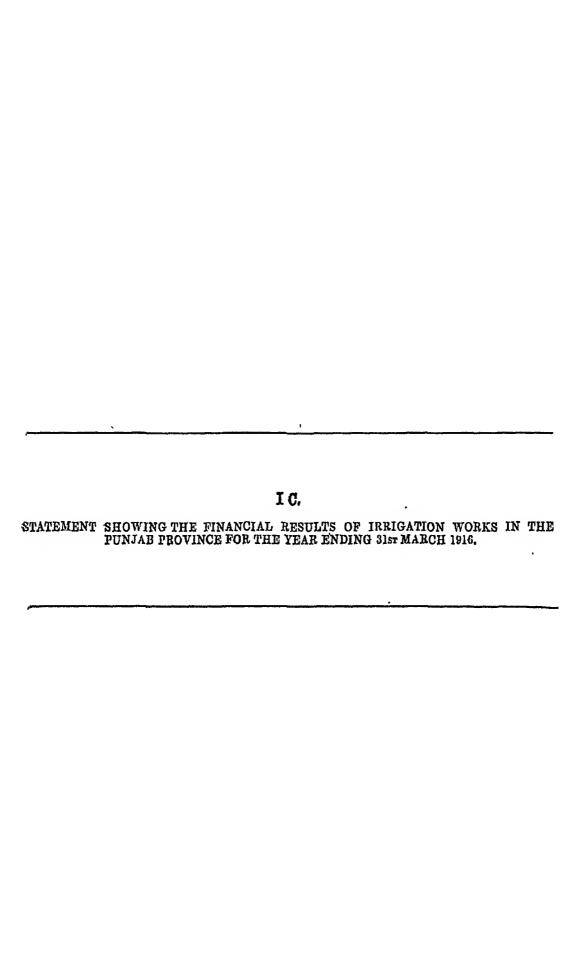
(i) Ditto ditto 17 da.

(j) D'tto ditto 13 da.

(ii) Ditto ditto 6 do.

I. B
CAPITAL ACCOUNT OF THE IRRIGATION WORKS IN THE PUNJAB PROVINCE FOR AND TO END OF 1915-16.

			Dibect chare	16 (YRT BEF1)	f017022.)				
		Werks.	Establish- ment.	Tools and Plant.	Suspense.	Total.	Indirect charges ex- clusive of interest.	Total charges excluding interest.	Pimple interest.
1,		2	3	6		6	7	6	9
49.—CAPITAL EXPENDITURE ON I GATION WORKS NOT CHARGE TO REVENUE.	BRI.	Rs.	Rs.	Rs.	Ra.	Rs.	He.	Bs.	He.
WEBSER JUNEA CARAL INCLUSING STARA BRAZ-	ea.								•
fo end of previous year During the year Contribution { To end of previous year During the year		1,51,12,400 14,092 0,00,108	33,27,579 3,261 2,30 543	3,17,677 235 73,768	2,16,715 2,857	1,68,67,527 14,627 11,60,478	1,039	1,76,76,776 12,689 11,60,478	2,33,17,514 6,65,036
Egenten Carat—Interstit.		1,73,23,842	46,20,371	21,06,037	2,19,871	9,43,41,141	12,11,273	2,54,02,614	3,22,95,763
During the year To oud of Previous year Contribution During the year Nabha	661 510 611	95,77,745 95,77,745 45,649 4,667 4,076	1,244 E3,66,64 4,773 471 477	917 19,01,335 110 11 10	- 33,500	63,970 1,42,43,151 49,012 6,179 6,479	174	54,141 1,42,13,151 47,273 5,473 6,473	6,4 13
Upper Hart Doar Canal. To end of previous year During the year	:-	1,57,11,522 3,93,660	51,21,771 24,153	9,0%,639 9,101	7,47,608 1,50,443	3,07,07,617 3,07,07,618	2,22,755 9,2.7	2,15,27,355 2,10,152	5,84,49,07 6 7,87,855
Lower Bart Doar Caral. So and of previous year During the year Urrer Crevan Caral.	:	1,47,97,339 8,73,918	25,05,07 2,65,07	15,13,679 — 005	10,00,115 -47,211	1,07,74,671 0,02,123	3,72,10) 35,919	9,61,11,011 0,20,931	35.01,724 7,0 3 ,171
To end of previous year	=	2,50,01,145 0,65,603	30,31,649 2,63,643	16,67,421 17,273	8,85,427 74,033	3,21,30,047 11,94,458	0,27,517 53,553	3,72,57,762 12,41,631	69,41,598 11,46,672
Lower Curran Caral. To eod of prerious year During the year		2,47,69,210 1,04,662	69,97,15% 24,227	8,31,513 3,997	6,12,451 1,26,410	3,09,40,129 92,779	7,00,620 8,002	3,17,00 (*3 93,723	2,15,99,541 10,78,007
UPPER JUREUM CAPAL. To end of provious year		2,93,10,673 17,20,694	47 89,493 8,04,173	45,33,211 — 84,192	12,42,049 — 76,676	2,0°,65,335 16,01,161	7,31,041 49,770	4.04,17,379 19,13,710	87,18,174 14,11,0.9
Lowes Juerus Caral, To end of provious pear Dunog tho year		1,25,97,516 17,709	3,653 11,67,071	3,62,407 7:0	4,31,313 7,533	1,58,62,049 650,66	2,55,621 62	1,09,51,452 24,50	73,10,152 6,40,651
Upper Strike Interactor Carate. Totald of provious year	اي	13,64,563 6,218	2,03,497 1,633	26,5% 114	21,679 363	37,04,030 11,326	1,00,5 t7 275	19,00,770 21,6√3	21,67,09 3 80,433
Smusal Carels.	1	9,45,638		38,079	65,033	12.91.710			
To end of prorious year		611 6/11/202	3,63,020	90,129	- 865	ee 266	62,217 	13,31,027 — QCG	12,40,425 41,635
To cod of previous your		92,13,474 1,31,232	4,75,706 23,818	33,849 1,787	58,003 11,430	97,45,973 1,47,337	26,308 3,537	37,73,739 1,51,421	18,42,756 97,913
Total Imperial		15,57,77,223	2,97,53,291	1,20,23,232	61,97,613	20,00,77,450	€0,13,5 €	31,21,31,675	17,78,21,259
CDoring the year		42,11,031	6'C /e31	-13,103	- 6,19,757	44,61,223	1,50,167	49,51,343	12,31,633
Total Coolinbation {To end of previous year		1,05,77,016	56, 0,610 6,211	12,25,105		1,54,03,729		1,617,520	
43-MINOR WORKS AND NAVIGAT	TON.					05,000		61,274	
EMARPUR CAPAL					١.				
To end of previous year		1,75,980	£7,530	C13	:::	2,03,033	 6,991	3,15,216	••• •«
Imperial {To end of previous year { During life year { Cooleholion } {During life year { During the ye	844 844	2,01,839 10 2,33,824	62,797 	7,623 *** 3,634		3,63,316 19 3,85,442	10,793	- 3,78,110 19 2,65,443	
(To end of previous year		1,03,659	97,057	9,535		5,71,251	20,773	5,53,021	
Total Imperial During the year	\$ 14	10			-	19	<u> </u>	19	
Total Contribution {To end of previous year During the year	814	2,38,621	·	3,834	·	2,65,412		2,55,442	
- Chatting ette lebe	***	<u></u>	·	 -					
Jalaupun Cinal,		}		1			}		
To eed of previous year	j a 1	25,671	19,221	3,001		£1,004	3,708	63,70 3	E:



11 . . .

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

REALIZATIONS UNDER MAIN HEADS OF

100 (11 to 10 to 1							REVENUE	ACTUAL	RECEIPT	9.			1
				Ianto at	10 F.								
IERIGAT			Weter-rate directly paid.	Share of land recens and rale-proceeds of w. ete and other lands,	Owner's rate.	Totalı	Navigation.	Piantation.	Water lower.	Miscellansous,	Total,	Befunde of revena e.	Grees reyence ices refands.
1				3	4	5	-6-	7	8	9	10	11	19
Pao no orten	Wores.		Rs.	Rs.	Re.	Re.	Ra.	Ro.	Rs.	Rs.	Rs.	Be,	Rs.
Western James Canal, luch ing Sirsa Branch.	od-{ Imperial Contribution	1	20,47,354 2,40,176	2,30,990		28,78,854 2,40,174	52,194 	21,781 437	6,263 327	49,878	\$0,09,523 (a) 3,43, 667	2,202 2,210	\$0,08,25% , 2,61,451
Cirhind Canal	··· { Imperial Contribution	-	28,00,250 21,00,707	89,851	an.	28,98,810 21,05,797	11,010	28,574 13,729	1,17,739	1,71,013 24,913	32,28,085 22,60,270	744	32,27,340
Upper Barl Doah Canal			38,28,496	0,10,203		41,63,770	6,646	21,239	1,18,059	1,30,600	47,20,155	13,216	(d) 22,46,852 57,18,965
Lower Bari Doab Canal .		\cdot	4,28,970	1,20,986	444	5,47,965	***	1,465	# 1	4720	8,83,169	663	5,53,40 7
Upper Chenab Canal Lower Chenab Canal		*	9,27,059	61,677		9,89,135	,	208	J**	20,518	18,17,049	915	10,17,332
	. 42		83,58,423	74,74,490	9,417	1,56,35,323	***	23,232	18,059	50,374 0,281	1,59,23,097 0,204	747	1,59,22,240 0,234
Lower Jhelum Canal	. 41		25,60,501	14,72,343		40,82,908	***	7,954	80,23;	31,636	41,22,563	780	41,21,783
Upper Sutiri Insudation Can	als es		4,60,902	2,67,067	41	7,33,050	-	4,293	all	5,B15	7,48,197	84	7,45,10
Sidhna! Canals	des ças	٠	0, 10,695	2,09,310		9,76,014	***	360	#1	0,736	0,33,129	350	B,32,770
Indos Icnodation Canals .	. •••	***	1,35,601	3,50,127		3,85,518		2,657		18,569	4,57,843	109	4,87,175
'. P Total Canali in Sperare	Geo tribution	111	2,27,69,431 24,08,971	1,07,92,939	2,417	9,35,90,183 24,00,971	63,303 6,139	1,14,019 13,168	2,82,696 50,039	5,47,103 27,622	3,45,67,412 25,03,937	7,609 10,831	3,45,69,804 • 24,88,309
Works for which out are are	REVENUE Accou	NT.		•									
Lower Sailej lunudation Can	al, including Hapin	rob	5,05,6 19 1	8,11,339		6,17,857		1,413		2,171	0,21,74)	130	0,21,610
Chenab Inundation Canals . Mozaffarcarh Inundation Ca		"	3,03,177	2,75,190	en.	4,03,367	ì.	1,632	10	1,425	4,71,823	201	4,71,304
	noie	"	2,07,218	3,70,281		6,37,630	***	5,927		2,657	0,46,213	***	6,48,213
•	TOTAL	"	7,77,943	9,43,812	<i>,</i> ,,	17,23,704		9,070	· "	0,754	17,30,578	301	17,89,167
MORES NOS MRICE OFF.	itle and Reve ed empt,	NUR								'			
Shahpur Canals	a) 444	-	76,910	15,107	-	99,023	pm.	167	-	21	02,201	530	92,261
Ghaggar Canals	{Imperial Contribution		17,528	•••	959	17,538	•••				. 17,510	۳.	17,540
•	(Imperial			***	e40								
TOTAL	Contribution		34,454	15,107		1,09,581	1	157		. 7.	1,09,741	14* 813	1,00,741
Province	iet.				``					,.	t		
Shahpur Counts		-	29,277	0,457	,,,	35,734	===			615	30,350	- ",	26,359
Ravi Inundation Canals	150	"	382	619		1,270				<u></u> .	1,270		1,27
ī	OTAL I		29,659	7,815		87,001		٠	•#	. 025	37,629		37,029

(a) Includes Rs. 1,706 credited to Patiala State through (b) and (c) Include Rs. 20,702 and Rs. 11,800, respectively, (d) Includes Rs. 60,615 parced hrough the Administrative (d) ... 2,62,009, Rs. 60,602 and Rs. 24,240 spent

C. WORKS IN THE PUNJAB PROVINCE FOR THE YEAR ENDING 31st MARCH 1916. Revenue and Working Expenses.

	EVENUE	MAN	AGEME	NT.					MAIN	TENANCE	OF W	orks,				Ī	<u> </u>	المخسس
_	Esta	DLIPE	ł 1 F7.			Establi	BILLENT,				1		1		Ι		1080	
Direction.	Excoulty.	Navigation.	Ciril Offiners.	Total,	Direction.	Ezeaniro.	Medient	Total.	Watks.	Bepaits.	Sandrot.	Tools and plant.	Plantations.	Total cost of maintenance.	Total direction charges.	Indurect charges.,	Grand total, Wurking Erpensus.	igot Beronne
19	16	19	16	17	18	19	97	91	21	23	24	25 [28	27	28	39	30	31
Re.	Re.	Br.	ka.	Re	IIs.	Be.	Ile.	Rs.	P.	IIs.	Rs.	Ra,	Rs.	Rs.	Re.	Ra.	Rs.	Bs.
38,039	3,23,635	180	73,575	4,84,739	19,950	1,69,002	11,711	1,91,603	1,17,501	6,89,E67	1,173	39,273	29,129	9,80,305	19,24,043	81,971	14,05,414	10,00,037
193	233	***	**	238	F,111	32,539	109	37,920	21,074	(e) 51,632	-129	RE4	1,255	92,819	93,155	"	93,165	1,43,208
37,849	8,47,990	314	01,032	4,80,784	13,351	කෘ,ය	11,495	D3,605	1,31,540	2,99,107	15	29,485	26,025	6,77,081	11,57,86\$	80,093	12,38,958	19,88,489
3,010	11,796	***	•••	14,459	37,471	87,766	3,318	£08,60,:	1,60,320	5,21,203	3,170	12,774	3, 102	8,15,910	9,51,049	***	8,31,048	14,15,500
49,316	3,84,03)	***	1,00,032	9,38,377	12,564	71,371	9,572	69,197	96,282	£,07,614	259	14,920	34,698	7,45,087	12,83,241	80,221	18,78,665	83,45,404
8,551	1,17,701	•••	12,103	1,69,239	19,433	19,171	,04	25,904	12,102	3,84,418	***	6,110	26,832	4,54,219	9,23,658	27,433	6,50,085	97,489
18,197	1,60,180	,	52,133	1,95,603	14,767	45,970		57,627	1,49,000	3,85,128	37,780	19,760	0,095	0,00,176	7,09,785	35,023	8,83,806	1,83,525
53,865	5,69,533		2,47,623	8,90,623	25,976	1,48,419	23,434	1,09,571	P,70,950	9,37,171	£51	95,193	60,225	29,89,020	31,19,865	1,62,139	32,71,993	1,20,60,317
97	7,110		***	7,237	8,349	43,749	44.	E2,007	20,255	2,49,145	***	3,946	3,103	3,29,000	3,33,943	8,307	3,42,150	3,35,916
41,332	2,92,721	101	71,023	4,02,076	0,405,	24,345	10,639	23,279	21,061	E,26,185	623	z1,303	38,723	3,44, 090	7,53,008	51,791	8,17,850	39,03,024
0,899	01,255	μ,	12,723	1,10,00	0,383	31,519	1,621	45,471	10,740	1,00,413	••	2,813	10,074	2,77,114	3,83,004	21,704	4,00,708	3,36,305
6,527	61,415		5,529	71,212	755	9,505	1,479	7,001	10,919	37,787	***	3,794	5,273	64,255	1,85,157	11,105	1,48,592	0,20,167
2,072	37.813	,,,	0,174	47,218	0,012	91,999	1,039	63,500	1,17,105	1,70,649	438	1,870	19,184	9,79,105	6,25,323	19,261	4,41,583	-4,600
8,44,250 2,743	21,33,635 12,723	503	0,68,411	23,69,819 14,772	1,35,717 25,663	1,19,451 1,14,995	67,49L 3,459	8,15,959 6,41,072	19,25,232	40,01,339 6,03,025	40,783 2,053	1,80,923 13,928	3,87,320 5,963	60,69,363 0,69,420	1,03,43,170 9,24,291	5,83,548	1,00,31,516 0,24,291	3,36,53,288 15,64,103
			,															
6,919	83,015 1	•	8,91 4	C5,053	9,471	31,14	1,591	39,170	54,227	1,08,093	-607	1,490	5,443	2,05,521	2,70,863	14,501	9,05,454	\$,36,156
5,259	14,707		5,979	32,229	B,810	16,410	"	32,569	13,224	92,554	- "	\$28	9,240	1,49,023	1,95,251	7,041	1,72,202	2,99,972
658,8	58,915		P,998	70,961	17 EUS	41,125		85,910	24,170	1,94,007	 0,331	3,279	11,300	2,60,514	3,40,955	17,802	8,67,077	2,58,236
27,029	1,18,771		22,511	1,90,938	24,914	215,83	1,551	1,16,687	£9,911	8,00,561	-9,030	5,395	23,035	9,16,291	7,79,199	39,521	8, 16,723	0,23,491
3,2 0 6	0,763		2,513	19,411	2,219	6,417		9,427	209	25,157				34,073	40,513	8,974	52,697	89,314
1,450	5,47 5		517	7,308	2,383	8,957		11,300	2,009	11,581		127	20	23,021	35,302	2,621	39,013	-18,473
:				,	259	3,623		(7) 1/8,E	1,103	11,425	-	(1)	10	16,646	10,585		19,535	16,634
4,802	19,159	**	2,839	23,610	4,803 253	11,404 J,623		20,007	9,109 1,193	89,741 11,435		123 66		60,993 15,585	82,803 19,885	E,995	£8,900 18,585	20,811 -15,594
2,150 3,169	5,F93 	.,,	780	8,714	2,678	7,679		10,254		10,329				20,683	28,297	2,018		-6,691 -1,118
4,157	5,602		763	19,501	2,678	7,578		19,254		10,829				29,583	40,387	2,040	47,536	-5,707
			1	Province	<u> </u>	,,,,,	-"	15,502		10,027	41	;**		,,,,,	10,001	-,-		

the Administrative Accounts of the Province, actually spent by ite Pathala State on maintenance of State Changis, Accounts of the Province, by the Mairye States of satisfa, Nabla and Jind, 19spectively,

	_					STATE	MENT SHO	WING THE	FI	NANCI.	AL REST	LTS OF I	RRIGATION
								L FINANCIAL RE					
				Mil	eago in	s con	i,	1 4		1	1 8	1 2	2.5
	Ä	Name of wor	.		ration.	cost of direct	Date of completion work (P. W. Codo 1918).	Date when system fire		otal capital outlay (direct and indirect).	i i	mrpits	to di B can
	Nambor of works.	ANAMO OF WOL	**.	Main Canala and Branches.	i.	A Sign	Y. C	ayate		ing:	ATrears	-	odin.
	er of		İ	Öğ	Distri., utaries,	Betimated contraction indirect).	,	2 g		spit and	r fe	os.	4 t
	gnb			sin	tri.	truc	90rk of	A A		Feet	mul	mula	, fill
ŧ			<u> </u> [.			M	Dat	Date		Total Tab)	Accumulated interest.	Acenmulated royon uos.	Total , sum-at-chargo (solumn 7 + column 8).
	1_	2		. 8	4	Б	6a	68		7 7	8		10
	1	MAJOR WORK	20,	lilos.	Miles.	Rs.	Data.	Date		Re.	Rs.	Rs.	Ra
		PRODUCTIVE WO				1			Ì				101
	1	Westorn (Impo	nial	(a) 294	(å) 1,679	1,75,48,063	15						
		Canal, in-			.,,,,,,	-,, -,,20,,000	Canal-		ı				
		Siran Conti	ribu	35	151	11,80,478	I ware Didning			1,76,92,53	Б	5,16,24,49	2 1,76,92,535
				818	1,589	0 50 00 000	1885	1891-92		11,60,47	1		11,50,478
	2	Sirhind Coutr	ıbu-	219	1,811	2,56 06,802 1,43,99,635	1886-87	1683-84		2,55,56,55	r 1	1,57,35,62	2,55,56,558
	3	_		325	1 500					-130,02,00	"		1,48,02,005
	1	Caual,	MD .	320	1,580	2,14,79, 885	1878-79	1560-81		2,18,72,49	7	4,25,85,999	2,18,72,497
	4		oah 1	184	1,044	2,28,28,402	Still in progres	1913-14	- 1	D 10 01 000			
		Caual,					man tu progres	2 1910-14	- 1	2,10,81,092	31,81,40		2,42,63,401
	,	Opper Chenab Can	- 1	70	1,051	3.73,57,024	Ditto	1912-18	- 1	3,45,01,598	68,04.33	1	4,18,05,924
	- 1	bower Chenab Cana	- 1	27	2,287	3,18,11,847	1899-1900	•	1.	3,17,06,780		11,40,60,690	1.
		Jpper Jhalum Cana		88		4,42,96,559	Still in progress	1915		4,23,81,119	74,85,09		
	β L	ower Jheinm Cons	al 10	81	1,011	1,89,63,988	Ditto	1901	1	1,59,65,762		1,88,76,821	4,99,26,218
	_ _		١				(Upper Sutloj-	1855	7		("	1,00,10,021	1,59,65,762
	9 0	pper Sutlej Inund: tion Canals.	A- 32	26	895	17,97,414) 1858-59) Lower Sobag and	1884	{	18,18,381	'	80,29,427	18,18,381
1	0 8	idhnai Canala	6	18	252	12,87,874	Para, 1886	1886	기	18,30,961			
		idus Inundation Canals.	n 44	13	303	29,23,413	1849-50	Prior to-		29,73,306	7,40,866	59,88,520	18,30,961
		(Imperial	0.77	_ -				1849	_ _	,10,000	7,90,000	***	37,14 172
_	1	Total	2,11	9 1	1,041	22,53,93,576	***	•••	21	,69,51,484	1,81,91,908	24,67,96,478	25,51,43,189
:		(Contribut lor	25	4 1	,982	1,55,60,013	•11		Ι,	,54,62,483		•	
	1	linor works.	-	_	-				-	102,00,100	***		1,54,62,453
	W	ORES FOR WRIGH										Ì	
	13	CAPITAL AND RE-				ł							
		ARE MEPT.		1									
12	Sh	shpur Caual 😁	68	3	72	2,15,914	1870-71	1870		2,15,914	***	10,69,246	2,15,014
3	ah.	[Imperial	44	•	34	3,76,129	1898-99	1897	1	3,76,129	10,54,895		
J	10.00	ggar Contribu	- 53	١ .	.	2,85,449	• • • •	107		2,85,442	-		14,81,014
	ĺ	(Imperial	110		105	E 02 0/0			-				2,55,442
	To	tal }				5,92,043	•••	***		5,92,043	10,54,865	10,69,246	16,46,928
		(Contribution	53	<u> </u>	·	2,85,442	١	••• .		2,85,442	•••		0.05.440
	W	NES FOR WHICH			_ `				-				2,85,442
		ACCOUTS ARM MEPT.		1		, .	`	-					
14	Lov	rer Sutlej Iuunda- ou Canals	400	\	318	'	1895	1	١			71.07.000	
15		affargarh Inuada-	,,,	Ι.		Į		Prior to annexs.	Ji -	"	4	71,27,239	•••
	tio	n Oaus le.	418	7	37		1896	tion of the Punjab by	1 /	•••		75,24,837	1+1
16	Cho	nab Inundotion	267		63		1825	the British.	11		l		
		nals,			_ _				L	"	. "	88,14,415	•••
		Į,	1,085	1,1	18		r., 1	***		•••		2,12,05,491	
,,	gı. •	Procincial.	١.					,					
17	•	pur Canal	58		5 2		m					2,57,004	
18		Cana!			_ _		.,,				,		***
		Cotal	58	1	52	•••		:				2,57,001	·
,						<u>-</u>				·····		Onened as on	

(a) Includes 4 miles and (b) 45 miles (c) Includes 7 miles and (b) 45 miles (c) Includes recoveries made by (d) Includes Re. 11,824 spent

UWORKS FOR, AND UP TO THE END OF, 1915-16.

		1			ESULTS OF THE	YEAR 1919-10,	·		
Gress receipts (direct and indirect).	Working expenses (direct and indirect),	Net revenue.	Percentage on eapital ontlay, column 7.	Percentage on sum-as- charge, column 10.	Interest at 3.4775 per cent. en direct enpitat onling to end of previous year, plus in it the onlay of the year.	Net profit.	Not loss.	Area, irrigated.	Percentage of werking crpenses to receipt: (e.tumn 11 to column
- 11	12	13	14	15	15	17	18	19	20
Rs	Re.	Ra.	%	*	Rs.	Rs,	Rs,	Acres.	% .
30,06,351	14,05,414	16,00,937	9.04	901	5,85,986	10,14,951		761,334	46-7
(c) 2,41,451	93,155	1,48,296	12.77	12-77	***	•••	58,963	68,749	38:
82,27,840 (a) 22,46,852	12,38,858 8,31,045	19,88,482 14,15,606	7·78 9·90	778 990	8,44,273	11,44,209	— 3,67,670	927,059 580,008	38 g 96 g
47,18,969	13,72,566	33,46,404	15:29	15-29	7,27,856	126,18,549		1,145,234	29.0
5,58,497	6,50,985	97,488	-48	-40	7,02,171		7.99,659	283,294	117.6
10,17,838	8,83,808	1,89,525	-58	-44	11,46,872		9,63,347	825,062	81.9
6,284	82,71,993	1,26,50,247	39.78	8978	10,76,007	1,15,74,240	***	2,284,079	20.2
41,21,783	8,42,150	8,85,910	-79	'67	14,11,009		17,46,925	***	5,488.4
	8,17,659	33,03,924	20-7	207	5,40,561	27,63,263		834,176	19.8
7,46,103	4,09,708	8,88,895	16.20	18.60	69,438	2,76,957	,	272,746	54.9
8,32,779	1,46,592	6,86,187	61·65	81-85	44,388	6,41,849	, 	270,150	17:5
4,87,175	4,41,564	 4,40 B	•14	•11	97,918	•••	1,02,822	235,641	101.00
3,45,89,804	1,09,31,616	2,16,66,268	10.90	10.08	72,87,028	2,00,33,516	88,12,253	7,838,775	31.60
24,88,003	9,24,201	15,64,102	10.11	10:11	.,.	1,64,21.	205 — 4,26,683	^{-643,757}	87·14
1	· 4.	' . *							
92,201	52,887	89,314	18:20	18:20			,		
17,540	88,018	-18,478	-4·91	-1.29	7,151	82,103	***	26,769	67 36
1	(d) 16,585	18,564	— 5·81	-581	12,686	- "	81,159	22,000	205:31
1,09,741	68,900	20,841					4,768	3, 168	***
			8.2	1.26	19,837	32,163	81,159	48,765	,81:00
	16,585	- 18,584	— 5·81	<u>- 5.81</u>		1,004	4,783	3,188	pks
		[,		[
6,21,610	2,85,454	3,38,158	:			3,36,158		283,572	45.92
6,46,218	8,57,977	2,88,288				2,88,230		377 395	· 3·95
471,384	1,72,292	2,99,072				2,99,072		170,485	36:33
17,39,187	8,15,728	9,23,464				9,23,484		831,452	46 90
		4 704							4080
86.359	40.959								
86,359 1,270	40,953 2,383	4,594 1,113		•••	110	•••	· 4,594	18,894	112:63

Canal in 1667 and as a percential Canal in 1692, of the Lower Chautang Nala Canal, Native States and credited in their books, by the Bikaner State,

III C.

STATEMENT SHOWING DEMANDS AND BEALIZATIONS IN THE PUNJAB PROVINCE
FOR THE YEAR 1915-16.

Name of Canal.	Inlance of demands remaining un- reduced at the commencement of the year.	Demand during the year.	Total.	Deducted remissions not including	Net smount.	Actual realizations,	Amount unrealized at the close of the year.
1	2	8	4	5	в	7	8 ,
XXIX-Major Works- Direct Receipts.	Ra.	Rs.	Rs.	Rs. ,	Rs.	Re.	Rs.
Water or occupier's rate.		,					
Western Jumna Canal	7,738	26,72,196	26,78,934	31,091	26,49,853	26,47,854	1,499
Sirhind Canal	28,903	23,77,168	20,08,094	01,309	29,44,786	28,09,289	1,35,496
Upper Bari Doab Canal	12,155	38,79,548	38,91,703	50,251	88,41,452	38,26,496	14,966
Lower Bari Doab Canal :	. 6,226	6,21,193	6,27,419	1,95 024	4,31,495	4,26,979	4,516
Upper Chenab Canal	60,649	10,79,533	11,40,181	2,07,150	9,33,031	P,27,058	5,978
Lower Chenzh Canal	6,960	83,55,833	83,62,793	5,961	83,56,832	83,59,125	-1,593
Lower Jhelum Canal	4,637	25,85,298	25,80,986	9,635	25,86,300	25,80,563	5,797
Sidhnai Canal	4,250	6,15,621	6,19,871	13	6,10,658	6,16,685	3,173
Upper Sutlej Inundation Canals	4,198	4,81,865	4,89,063	17,092	4,71,971	4,66,902	- 6,069
Indus Inandation Caus's	31,650	1,64,839	1,96,498	75	1,06,423	(a)1,81,869	14,654
Total occupiers' rates	1,67,579	2,91,36,119	2,38,03,491	5,72,491	2,30,31,000	2,29,41,610	1,89,390
Owner's rate.							
Lower Cherab Canal	461	1,785	2,926		2,226	2,417	 191
Trower Cuerzo Cuust		3,700			* 2,230		
XXX-MINOR WORKS AND NAVIGATION-IMPERIAL.			.		•		
Lower Sutiej Inundation Causis	26	2,72,343	2,72,268		2,72,269	2,72,091	177
Muzaffargarh Inundation Canals	620	2,67,002	2,67,622	189	2,67,432	2,67,246	187
Chenab Inundation Canals	5,811	1,93,571	2,01,332		2,07,382	2,01,177	8,205
Hajinah Caval		31,428	34,428	•••	94,423	34,428	***
S) alipur Inundation Canals		77,078	77,078	172	76,006 ,	76,916	10
dlagger Inucdation Canals	3	17,926	17,829	291	17,538	17,538	•••
Total ,,.	9,460	R,G7,147	8.76,607	652	8,75,955	8,72,396	3,569
PROVINCIAL.					`		,
Shahpur Canal	-149	35,348	35,199	5 879	29, 320	22,277	43
Rati Canal	att	382	382		3.2	383	•••
Total	-149	35,730	35,581	6,670	29,702	29,659	43

⁽a) Includes Rs. 45,178 on account of Dhundi Estate.

IV C.
STATEMENT SHOWING THE FINANCIAL RESULTS OF THE TREGATION WORKS IN THE PUNJAB PROVINCE FOR THE YEAR 1915-16 BASED ON ASSESSMENTS OF THE YEAR 1915-16 AND PRINCIPAL RESULTS OF OPERATIONS FOR THE YEAR ENDING 31st MARCH 1916.

	tot, to		11	EVENU	E ABSESS	ED DUB	ING THE	TEAR.			Pag .	ı,	end
	ot and indireat,		. מ	iknor as	1480F83 XX	BEIPTS.				, ,	caDiract	18 of the year	tal outlay to
IRRIGATION WORKS,	Capital outly, direct end of the year 191	Occupier's rates.	Ounors' rate.	Plantation.	Waterpower	Natigation.	Misca Ususona.	Total.	Indirect rocalpis.	Grand Total.	Working Expenses-	Not assesced roremas of the year.	Parrentage on capital outlay to
1		8		8	6	7	6	•	10	11	15	19	
PRODUCTIVE WORKS,	Bs.	Re.	Rs.	Ľı	ns.	Rs.	Rs	Rs.	Rs.	Ds.	Rg.	Es.	B
Western Jampa Caust (Imperial including Siren Branch Contributio	1,76,92,725	28,18,221 2,21,549	024	31,766 437	0,263 827		49,978 2,719	29,49,430 2,29,641	2,30,093	31,79,420 2,78,611	14,05,115 93,155	17,74,006	10
Birblyd Canal { [Im; enal Contribution .	2,57,86,658 1,13,07,005	30,63,072 25,01,876	***	29,576 12,720	1,15,733 41,712	13,018 6,129	1,71,81 9 24,699	20,09,216 25,85,010	89,661 	40,87,867 25,85,040	12,38,519 9,31,016	25,49,009 17,54,003	11
Ipper Ban Doab Cannl	2,18,72,497	38,39,501	***	21,238	1,13,163		1,57,872	41,15,907	6,16,203	47,32,200	13,72,565	23,50,635	10
owers, so so so	2,10,81,972	1,03,010		1,4*8			4,720	4,05,710	1,26,994	0,16,699	6,60,955	-35,280	١
Ipper Chenab .,	3,41,01,523	113,41,502	٠	263		'	29,515	113,74,315	61,077	14,36,392	8,23,838	6,01,681	ا ا
orbi es es tâmo.	3,17,97,767	F3,02,614	21,663	22,732	15,010		20,576	81,61,242	81,61,630	1,66,02,772	33,71,093	1,33,30,778	4
Iprer Ihelam .,	1,23,61,110	344					6,263	€,263		0,261	9,42,180	-3,55,986	-
LOWER ,, ,, ,	1,59,63,7/2	27,31,410	41+	7,574	20,28		31,350	\$9,00,078	14,72,813	42,75,418	8,17,950	34,87,569	:
pper Suilej Inandation Cruala	16,10,241	7,51,795		4,103			7,815	9,63,033	2,01,273	6,05,300	4,00,168	1,55,593	
idinai Carais	13,50,041	6,70,169		387			6,733	4,27,003	2 00,329	6,99,632	1,10,599	5,40,016	١
eleneO nottebanel saba	29,71,916	1,67,000	4.	2,557	-		18,598	2,19,891	2,60,227	4,00,563	4,41,704	27,077	
Terre {Imp not (Contribution	21,60,41,191 1,51,62,163	2,12,22,1°0 27,16,121	23,607	1,1 C 048 13 165	2,F2,C95 67,038	3, 81	6,47,10\ 27,622	7,62,63,932 29,19,070	1,11,03 to	8,58,67,631 25,11,690	1,09,91,510 9,21,2JI	0 2 , 77, 56,010 10,89,860	1
Where for which Capital and Ratalize Accounts are earl.						İ							
habpur Csonia	2,15,915	65,270	p++	167		**	21	75,419	10,937	63,333	52,887	13,409	
happer Counts	3,76,117	18 ro:		т.			3	16,517	***	18,502	36,013	-17,501	-
Contribution	2,55,413	8,409	***			•••	† 155 ¹	8,5 !3		8,563	*10,585	-8,022	-
Contribution	8,02,01" 2,65,411	7,7,77 7,7,77 8,409	•••	157 H-			23 181	73,967 8,67 1	10,037	81,501 En1,6	6,633 783,81	-1,008 -8,022	-
Worr by which oall lit his Accounts and fift.													
arer Ertinj inquistion Causis		2,81,74	***	1,412	-		2,471	7,0-,615	3,11,338	6,79,813	2,85,454	2,95,498	
tead lour letten Cavals		1,78,170		1,633			1,126	1,78,439	2,61,100	4,42,619	1,73,292	2,70,353	
Carafurgarlı Innadation Canals .		2,76,6-8		6,620	!		2,607	2,84,371	5,70,291	6,63,665	3,87,077	2,06,678	
Tolal "		1,11,560		0,10	-		6,701	7,31,413	0,45,812	16,77,225	8,15,723	8,01,502	
PROTURGIAL WORKS FOR WHICH OPER HELY OVE ACCOUNTS ARE EPPS.								€.					
Lahpar Caaals		27,291					625	28,008	6,333	31,211	49,053	-6,712	
ayı Inordillen Carıls "			***	""	111			,,	684	658	3,363	-1,116	٠,
Intel		27,391	141	<u>.</u>			£25	28,608	7,315	35,868	47,800	⊷7,083	

[&]quot;Includes Br 11,631 spent by the Mikanor State, fluctules Es, 154 reported by the Richaner State,

I. D. STATEMENT OF TRAFFIC ON CANAZES IN THE PUNJAB DURING THE YEAR 1915-16.

Partic	alars.			Western Jumna Canal	Sirhind Canal.
Length of channel open for navigation	on		Miles	222	138
Receipts—				.,`	
Tollage on private boats	***	•••	Re.	57	1,894
,, Government boats		***	••• ,,	.,,	•••
,, ,, rofts	•••	•••	,,	52,227	15,26
Carrying operations or transport	service-				
Hire of Government beats	•••	44.0	,,	`	
Refund of revenue	•••	•••	,,	18	12
,	Tota	I receipts '	·m ,,	52,266	17,03
Maintenance obarges, including specia	al Navige	stion Establish	ment "	, 5,153	, 5,757
	Nei Reve	nue of year	,,	47,113	21,274
otal number of boats plying cargo	•••	•••		•••	***
n n n n passengers	•••	***			#104
otal registered tonnage cargo	•••	***			•••
, pancengors	ad t	•••	[***
Ton mileage, T	Jp (a)	ebe			8+9
1	Down	410	. •••	•••	•••
	r	Tetal		·	
stimated value of cargoes, Up (a)	•••	449	Rs.	•••	***
,, ,,,, Down	•••	•••	,,		***
•		Total	,,	•••	***
umber of passengers	•••	•••	[20,605
afts, Up	•••	***	O. ft.		1,696,996
,, Деми	•••	•••	"	2,090,975	•••
		· Total	,,	2,090,975	1,696,996
finated value of rafts	•••	, -	Rs.	14,58,417	11,72,252
allage on beats per ton per mile (a)		•••			***
,, ,, rafts per 100 c. ft				2.49	0.89

⁽a) Details of boat traffic are not recorded (Government of India, Public Works Department, No. 78-I, dated 22ud April 1892).

1

II D.

DESCRIPTION AND QUANTITIES OF RAFF TRAFFIC ON CANALS IN THE PUNJAB DURING THE YEAR 1915-16.

		1		WES	THRN J	WESTERN JUMMA CANAL	MAE.				SIRHE	SIRHIND CANAL.					-	TOTAL.		
D		- 1		TOTAE.	43		Peivare.	ATB.		£	Toru.		PRIVATE.	ATA.		Ħ	Total.		PRIVATE,	LEDE,
e re 100 71 4 4		 -	Quanti	Quantity in tons.	ŕ	Value.	Quantity.	Value.	Q,	Quantity in tons,	, da,	Value,	Quantity.	Value.	2	Quantity in tons.	ja,	Value.	Quantity.	Value,
1		<u> </u>	RI I	8	•	, m	9	-	83	G	10	Ħ	I SI	at a	14	18	25	17.	13	9
Rapes,			e e	Dowa.	Total.	В3,	, e	ij	Ωp.	Бочт.	Total.	į	Tons.	Ra.	U.S.	Дома.	Total.	Ra.	Tons.	IB.
Timbor in logs, round and squared		· ·		231	T C	16,971	241	16,871	:	908	363	17,743	253	13,631	:	503	504	35,613	101	20,502
Sleepors, broad gange	i	•	:	23,235	23,236	7,15,763	23,236	7,18,703	;	23,345	23,345	875,169	22,214	832,917	i	46,580	46,550	1.593,931	45,449	1,561,709
, puetro 11	?	<u>, </u>	<u> </u>	9,129	621'6	2,33,636	9,139	2,39,636	i	5,316	6,316	139,681	6,083	133,683	i	14,415	14,435	370,217	15,222	3,73,319
Scantlings]	· i	•	9,116	9,116	483,148	9,116	443,148	:	2,161	2,161	139,830	1 953	129,665	ŧ	772,11	772,11	621,978	11,069	6,12,813
Pamboos and reeds	;	- <u>-</u>	 :	;	:	:	:	:	;	3	4.0	930	10	930	:	2	150	086	4 9	930
Firewood	7	- <u>`</u> .		i	:	:	:	i	:	:	:	, i	:	:	:	i	:	:	1	;
					- <u> </u>															
ă	Total	· :		41,721 41,721		13,68,417	41,731	14,68,417	ı	31,249	31,249	1,172,252	29,577	1,110,916	:	72,970	72,970	2,630,669	71,298	2,569,333
		\ }.				-						1								

I.E. WITH APPENDICES A AND B.
STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN THE PUNJAB DURING THE YEAR 1915-16,

	DAY	DAYS CARAT	DAYS CAXAT		-	Truw	THE OWNER OF	Anga ingloated, in acres	ฑ์				V E E	Average Discremes, 12 Cusecs,	CS.		CUSEC.	CUSEC	1	1
NAMES OF CANALS.	Ä	FLOW.	<u> </u>	Килиге.	RABC.	3,	Totae.	17			Вобить с	CHOF PED.	AT HEAD ICON		Ar distring neads.	TABY	AT HEAD less VOLUME ES-	ļ	AT DITEI DUTABY HEADS.	in Ha
	.KradA	Rabi.	Irrigated.	Assessed,	Irrigated.	Азвениед.	Irrigated.	Atsessed	Flort.	Lift.	Arca irrigated.	Percent- age of ares	Kharif.	Rabi.	Kharif.	Babi,	Kharif.	abi.	Kharif R	Rabi.
. 1	e.s	6	4	เว	0	,		C	g	H	2	133	12	H	 g	11	s	a	ļ g	ı
Major Irrigation Work. Western James Canal (including Sirea Branch, Bestin, and Patieta)	ra 165	13 E	3 361,275	155,091	403,809	451.178	825,033	805 269	076,808	16,113	68,393	6.50	4,403	2,488	.3,611	2,033	23	186	8	228
Sirblad Canal (British)		1 183	202,862	239,031	634,197	605,400	927,059	801,157	922, 193	392,4	126, 156	13.61	2,973	2,853	2 290	2,362	6	23	128	269
" (Patials, Nabha and Jind	nd 171	1 183	209,052	207,237	370,913	370,001	590,003	577,811	575,823	4.185	115,733	19.95	2,217	2,004	2,051	1,831	ਨੰ	135	103	197
. Upper Beri Doab Canal	171	153	3 489,915	450,032	655,290	612,323	1,155,235	1,132,373	1,125,153	19,781	230, 133	20 53	6,93	2,491	4,908	1,955		55	100	335
Lower Bari Dosh Cansl	183	3 191	115,975	90,637	103,320	114,677	283,234	*11,002	252,423	118	4,035	1.1	2,536	1,404	3,036	1,221	25	GII	92	138
Upper Chenab Canal	169	9 183	3 159,152	155,510	165,010	162, 113	323,032	317,953	322,116	2,915	16.479	4.76	3,103	1,628	3,177	85.4	13	103	E	17
Lower Chend Canal	151	1 193	3 (52,142	619, 225	1.631,937	1,587,959	2,251,079	2,237,235	7,217,007	27.072	16 1,856	7.32	8,931	7,078	7,205	6,109	t	930	8	366
, Ibelum Canal	178	8 170	0 216,857	159,023	612,319	613,973	831,176	811,295	831,253	2,933	11,893	1-79	3,213	3,555	2,621	3,951	- 29	179	83	808
Upper Bullej Canals	-	10	134,197	137,612	138,539	139 559	272,716	256,171	209,677	3,079	23,998	10.6	ะ	3,131	2,908	, ຄຸດ	, 87		76	•
Sidhnai Canals	115	5 27	660,711 7	99 571	152,151	125,678	270,150	223,219	.218,213	5,035	910	0.31	1,6	1,638	1,683	88	100		160	
In las Inundation Canals	113	5 12	133,124	102,157	57,517	79,942	235,641	020.521,	225,685	8,956	4,825	2 05	3,1	3,184	3,181	18	. 7		7.	•
Total	<u> </u>	<u>: </u>	2,896,678	2,753,336	5,095,951	1,995,252	7,932,533	7,613,933	•											
Minor irrigation Works. Shahpar (Imperial) Invadution Canals	118		4 9,429	7.617	17,330	15,130	23,759	23,047	23,739	ຊ	į	:	123	208	ıδ	200	53		. 63	
Gnaggar Inandation Canals (British)		86	8124 5	4,178	17,738	17.639	22,003	21,817	22,006	:	į	-:	***	415	**	415	e S		53	
" " (Bikaner)	_		~	9	3,156	2,101	3,163	2,103	3 168	:	:	:	-	118	Ħ	118	27		27	
Lower Satioj Inundation Canals	146	90 90	0 122,335	91,668	161,237	159,145	293,572	211,913	255,355	19.218	19	0 03	16	1 956	1,958		145		145	
Cheash Inandation Cansis	130	;	81,107	61,789	83,378	89,063	170,195	141 853	139,751	2,101	860	0.50	,	2,30\$	2,30.		7.8		74	
Mazeffargyrh Inandation Causis	115	<u>ଛ୍</u>	0 137,979	125,751	239,116	27,233	377,393	331,094	373,407	3,939	59,173	13.82	5,4	5,469	5, 169	 6	69		8	
Shahpur (Provincial) Inandation Canala			4,527	4,071	11.337	13 039	18,891	17,730	14,894	:	353	1.8	ń	351	ต	351	22		23	:
Total	:	:	362,607	220,079	639,673	072,405	672,202	S00,319	:		Ī	Ī		İ	 	-		Ì	 	1

*Richalds 39,058 nero remitted under Tousney rules.

APPENDIX A TO STATEMENT I. E. STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1915-16.

		•	ì	Kharif	; 1915	}		Rabi, 19	15-16.	
CAUSE OF BELL	ibbion.	•	Area assesso 3.	Aren remitted.	Total area irrigated.	Percentago remitted.	Aren assessed.	Area remitted.	Total area irrigated.	Percentage remitted.
1			2	8	4	Б	6	7	8	9
WESTERN JUMNA 1. Wrong resessment		~	Acres,	Acres.	Acres.	1	Acres.	Acres 40	Acres.	
2. Escape irrigation	***				::"	~	:::		:	***
8. Under Tenancy Rules 4. Short supply	***			. 11 1,231	}	:::		9,000	***	***
B Hail	•••			1			•••		•••	•••
7. High wind	***	~		·" 21		·**		104	8	***
8. Flooding ((a) by her	ty rain	•••	•••	45				31	••• j	***
9. Rats	rauni		 11	90	***	:::	::	31		***
10. Locuets		***	101	1,791				1	" '	144
11. Other insects and blig 12. Bad germ nation or co		***	•••	1,768 819	•••			710 2,163	***	•••
13. Bid scil	***		•••	1				12		***
14 High Ind 15. Miscellancous	··· -	•••	***	"215	."	•••	•••	93 885	:::	***
		***			;_					
	Total	•••	355,091	(1) 6,151	861,275	171	451,178	(A) 12,G30	4:3,803	272
EIRHIND CINAL (imperial)	١٠								•••
2. Lacupe irrigation	***		***	i			***		:::	•••
3. Ut ler Tensney Rules 4. Short supply		•••	***	*** 99	•••		***	27,868		***
4. Short supply 5. Hail	***	***	***	12	***	•••		2		***
6. Prest	***	•••	***		•••		•••	52	•••	***
7. High wind	arv saia	***		11	""		***	"	,,,	*** *
8. Pleading (a) by he (b) from	c mal	₩.	***	1		111	***	14		•••
9. 16 t6	•*1	414	· ; ;;	1,632	`		144	1 2	***	***
11. Other insects and blip		•••		961	***	•••	***	ี		***
12. Bad remination or c		**	***	50°		•••	•••	95	•••	***
13. Mad sell	441	***	***	ĭ	1*1 ***	•"				***
15. Miscell sucous	***		•••	GSU			•-	617	1.0	N.a.
	Tolal		250,051	3,611	202,562	1.30	605,403	28,791	631,107	4.51
UPPER BARI DOS	III CANAL	1		1						
1. Wong new sment 2. Escapai-right on	4+4		***	27 5		•••	•••	82		***
2. Es apo i-rie-i on 8. Under Tenancy Rule	5				""		":		100	***
4. Short supply	100	**		765	•••	•••	•••	12,209		
5. Had 6. Prost	***	•••	:::	***				16	***	***
7 Mint wind		•••		41						100
8. Plocding (6) by he	nry rain Canal	•••	:::	18			•••	- 30		***
ä. 1/0(a (*)	* 1	•••		02			•••			300
10. Locusts	***			740 6,981	1			*** 35		
11. Other insects and blig 12. Bid germination or o		•••	***	40	::: -			86	:::	
13. Buleoil	•••	•••	•••	47				91	611	•••
14. High Irnd 15. Miscellagena	***	**	•••	1,185	140		***	420		***
	Total	•••	490,662	9,592	450,011	2 02	612,823	12,067	656,290	1.98
LOWER BART DO		la								
1. Wrong as exement	***	**						1021		
2. Escape irrigation 3. Uniler Tenancy Rule	 IJ	501		10,114		***		1,034 27,911		
4. Short supply	***	•••		11				1,277		:::
5. Hail 6. Prost	•••	•••		***	•••			" 20	***	
by 17 'cale and a d		***		" 44	***		***			
8. Finding (a) by he	ity fait	•••		9		314		***		
9. Ilate	***	***		*** 21	***	M.	1 :::	"100	""	i :::
10. Locusia	***			257] :::			***
11. Other insects and bli 12. Bad germination or		***		267 2,019	1	:::	1	8,390	1	
13. Ilad soil	***	•••		5,108	1		} "	4 82.	1	,
16. High land	1**	••	100	835 5,271	***	1		11,097	-	
end bernahaming se	Total	144	90,637	-}	114,974	-21-16	118,477	-	184,320	92.61
]		1				10,000	1 - 2201
(A) Defail of area		•				_		harif.	Ravi.	
In the four In Patials		***	***	***	***	4,5	***	6,356 801	19,321 108	

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1915-16-CONTINUED.

2. capo irrigation				<u> </u>				1915-16		MINUEL) .			MITTED
Total Section Sectio			•	-		Kha						Radi, 1	DTR-16'	
UPPER CHECKIN CANAL Acre.		ilseior.		Arthu activity		Area remitted.			Percentago remitted.	Arcs assessed.		tres remitted.	otal area irrigated.	reentago romittod.
### DEPER CHENARI CANAL Force presented	<u>'</u>			1		8	-	3	8	-				
S. Discription S. D	2. Lecupo irrigation	***	***	٠/ -	20.		1			Acre	+			
2. S. Flooding (6) by bovy rain and separate sep	a. Surre supply	•••	•••			•••	•	•		1	ĺ.		110	1
8. Trieding (6) by hewy rain		***			- 1			. 1			- } .,		•10	1
10	7. High wind				- 1	_	1			***		-		3
10	8. Flooding (a) by hor	TJ tain tanal	••	1 "	1		"	- 1						. 1
11 Other inserts and higher	10 Tooms			1	- 1 -		1	1		•••	1			
15. Big Symination of califration	11. Other insects and blin	1.4	***	1 -	1		•	,		1				1
1.1.	13 Red at	litiration			- 1	2,237	1							1
1.	14. High land				1.			1						
Total 155,510 3,612 159,152 2.52 162,413 3,497 105,910 216 LOWER CHENAL CANAL 155,510 3,612 159,152 2.52 162,413 3,497 105,910 216 Lower centre of the control of the con		-		1	1	•••		1						
LOWER CHENAN CANAL 155,510 3,612 159,162 2.52 152,413 3,497 155,510 2.15	17. Deg Nallah		•••		Ι.		1					530		
1. LOWER CHENAB CANAL 1. Wrong assessment 1. Wrong research			***				l			•••		4		1
LOWER CHENAR CANAL 1. Virong asternment 2. Leaper Princistion 3. Leaper Princistion 4. Shell, and the principle of the pr			•••	155,5	10	3.612						_	···	1
Description Description	4 11 Lang Bascasment				_				2 32	169,41	3 9,	497	165,910	2.16
Second Second	2. Lucape Irrigation		- 1		-	.	•••	١	. 1					
Second S	d Short supply		- 1					1	- 1		1			
7. High wind 8. Flooding (a) by hevy rain 9. Rais 10. Locavish 11. Other inacts and bilght 12. Bad germination or entitration 13. Bad and 14. High land 15. Alliecoliancous 16. Alliecoliancous 16. Alliecoliancous 16. Alliecoliancous 16. Alliecolia	6 Front		ſ		- "	888								1
8. Flooding (c) by heavy rada	7. Bigh wind				1		***			•		64		
10 10 10 11 12 12 12 12	8. Plooding ((a) by heavy	ralo	- 1		1 "	62		1		•••				
10. Locusin 10. Locusin 10. Locusin 11. Other insects and blight 12. Bad germination or entitivation 13. Bad germination or entitivation 13. Bad germination or entitivation 14. Bad germination 14. Bad g		al			1	51		1				20		1
1.1 Core fine extension of celtifation 1.2	10. Locusin					41			- 1			10		1
14 High land	12. Bad communition or call							1					i	
Total G93,425 2,717 652,143 0 41 1,575,550 41,078 1,631,937 2 70 LOWER JHELUM CANAL. LOWER JHELUM CANAL. Decape irrigation Under Tennner Rules Short supply High wind Locuts L	+4. 11.00 MOST 104		•••						- 1			-		
Total 699,425 2,717 652,143 0 41 1,587,559 41,078 1,631,937 2 70 LOWER JIELUM CANAL. Wrong parsenment Escape infigation Judy Tenney Rules Jud	was vrifen teltid		1		1 4			-						
Total Gi9,425 Z.717 C52,142 O 41 1,687,559 41,078 1.081,997 2.70	•				1 4					***				
LOWER JIELUM CANAL.		-	•••	649,423	2.7	717	052 142				17,83	7	***	
2. Escape triggallon 3. Under Tenancy Rules 1,027 10			-		-	- -		-	91 1	,657,559	41,07	8 1.69	1,937	270
1,037 1,037 1,046 1,131 1,144 1,14	. A. LECADO irrigadia-		- 1	***		- [111							
10	4. Short supply	•	- 1	111		o~		1	- 1	***	ľ		- 1	***
1,440 1,44	* 1(fill							1	- 1			. /	1	
S. Flooding (d) by heavy min O. Rais O. Locusts O. Locusts O. Lories I. Other inacets and blight I. Other inacets and blight I. High land CANALS. Wrong assessment I teaps irrigation Under Tenancy Rules Shert sumply Hail Frat Rits Lecusts Other inacets and blight I soap or irrigation Cluster sumply Hail Frost High land Clother inacets and blight I soap or irrigation Cluther inacets and blight I soap or irrigation I soap or irrigat	7. High wind	,			1			1					.	
O. Locusts 1. Other insects and blight 2. Bal fermination or cultivation 3. Bad s ii 4. High land 5. Macclianeous Total UPPER SUTLEN INUNDATION Wrong necessiment 1 Ecapo irrigation Under Tenancy Rules Electrosuply Hnil Holl Holl Holl Rots Holl Rots Holl Rots Locusts 1 29 Ulter insects and blight 105,023 16,833 1215,857 6 655 613,873 3,448 617,319 6-26 C-26 8. Flooding (a) by heavy r	in	1		1	1		1				1			
0. Locusts 1. Other insects and blight	V: 34418		- 1					ı				1		
13,13 13,13 14,14 14,14 15,777 15,177 16,077 17,012 17,01	0. Locusta			•••				J.	1					
4. High lend 5. Macclianeous 5. Total 5. Total 6. 109,023 7. 16,831 7. 109,023 7. 109,02	2. 1331 permination or culting		- 1				***	1	1					***
5. Miscellaneous 610 100 100 100 100 100 100 100 100 100	A High land								1		44	1		
Total	5. Miscellaneous		1		. 619		*71		-	, ,		1		***
UPPER SUTLEJ INUNDATION CANALS. Wrong nessment Pleapo irrigation Under Tenancy Rules Shert supply Hall High land Clooling {(a) by heavy rain} Clooling {(b) from canal} Rits Locusts Color insects and blight. Bad germination or cultivation Tatal Ligh land Miscellaneous Total 127,612 C,575 133,167 4-90 138,659 138,659		••	"						1		***	1		
CANALS, Wrong necessment Liveago irrigation Under Tenancy Rules Elect supply Hull Fruit Fruit Localing {(a) by heavy rain Cloding {(b) from canal Rits Locusts Ollar insects and blight Rad coit High land Total Itr,612 G,575 Ita,873 3,448 617,319 Cdc Cdc Ita,873 3,448 617,319 Cdc Ita,873 3,448 617,319 Cdc Ita,873 3,448 617,319 Cdc Ita,873 3,448 617,319 Cdc Ita,873 3,448 617,319 Cdc Ita,873 Ita,87	20/01	•	. 1	09,023	16,93	1 2	16.857		- -	· .	43	.		
1. Wrong nessessment 2. Feapo irrigation 2. Feapo irrigation 2. Feapo irrigation 2. Feapo irrigation 2. Feat supply 2. Feat 2. Fea		KOITA				1-		0.03	-	10,873	3,418	617,	319	6.56
Conder Tenancy Rules	1. Wrong necessment		.]]			1							
Hold Hold High land	Under Tenancy Rules	••	•			1	- 1		1	1	•••		1	***
Frest High land Flooding {(a) by heavy rain	Hall "				***	J								
High land	Frnet	•••				1		***		•				
Lecusts Other insects and blight Bad germination or cultivation That acid Total 127,612 6,575 131,187 4-90 138,659 138,659	tright land		.1 '	- 1	•••							844		
Lecusts Other insects and blight Bad germination or cultivation That acid Total 127,612 6,575 131,187 4-90 138,659 138,659	1 looding ((b) from canal	ı ••	Į.		***	ł		***	1.	-	i		- 1	
Otlar insects and blight Bad germination or cultivation High land Miscellaneous Total 127,612 6,575 133,187 4-90 138,559	Locusts	***	1	- 1	29	1				- 1		•••		
Tatal 127,612 6,575 133,187 4-90 138,659 138,659	Other insects and blocks	•••					- 1	***	1	1			1	
High land Miscellaneous Total 127,612 6,575 133,167 4-90 138,659 138,659	Dad ECTIDIDATION OF Cultimate	<u> </u>	!		2,162	•					· i	***		
Total 127,612 6,575 153,167 4-90 138,659 138,559			,			1		***		•				
Total 127,612 6,575 133,187 4-90 138,659 138,559	High land		1											
127,012 6,575 133,187 4-90 138,659 138,659	High land	-	•	•		••	•						- 1	***
	High land Miscellaneous	-				**		···	••	٠ -		***		***

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1915-16-continued.

	•			Kharif,	1915,			Rabi, 19	15-18.	
	CAUSE OF REMISSION.		Aron piscinci,	Area remitted,	Total area lirigated.	Porcentago remitted.	Area assessed.	Area romitted,	Total area irrigated.	Percentage remisted.
	1		2	8	4	б	6	7	8	9
	SIDHNAI CANALS.		Acres.	Acres	A cres.		Aeres.	Acres.	Acres.	
	Vrong neseesment				.					•••
	Seape irrigation	[•••	-				•••	.	•••
	Inder Trospoy Rules			4,144		:::		23,821		•••
5. H	Inil					•	•••			
	rest Ilgh wind	***	:::			:::	:::		:::	•••
	((1) by heavy min					1	:.	***		•••'
8. F	looding (2) from enual	***		• •	•••				•••	***
9. R	L(3) from rivor	. :::	***		::: }	*		"	:::	***
10. J	neusts			[•••	•••
11. O 12. B	ther insects and blight lad germination or cultivation		•••	6,205		:::	•••	•••	:	***
l8. II	iad soil	***		9,079	" \		::: {	2 190		•••
	High land Hacolianeous	***				•••		1,462		
	Total		98,671	19.428	117,999	10.48	124,678	27,473	152,151	16.0
IN	IDUS INUNDATION CANAL	s.				·				
					,				-	
	Vrong assessment	•••		***	•••	***	•	***	:	***
3, T	Juder Tenancy Rules	•••			•••			,,,		•••
	ihort supply	1+1	"	15,650		•••	•••	2,343	***	•••
	rost	•••	:::				***	•••		***
7. H	ligh wind '	•••		101	• •	•••	•••	288		***
8. F	(1) by rain looding (2) from river	•••	,	141	•••	••	***	***		***
	(8) hill torrent	***		•••		404	•••	p=+		***
	late	•••	••		•••		•••	***		
ii. O	thot insects and blight	•••	-::	840	**	••• •••	•••			•••
	Bad germination or cultivation	•••		10 258	***			12,806	•••	•••
14. S	ad soil	•••		19,350		۳.,,	,		"	•••
5, ` S	can'y rain	•	·,.				•••	2,193		•••
16. A	discellaneous	•••								
	Totol	•••	103,147	85,977	138 124	28.04	79,882	17,636	97,517	181
СН	ENAB INUNDATION CANA	LS.	·							
1. V	Frong assessment	•••	:::		***			•••		•••
8. T	Inder Tenancy Rules	•••		!	•••					***
	Short supply	40.0		9,760	***	•••		2,096]	470
6. F	rost		:::	***	•••	•••	•••			999
7. E	ligh wind :	••• '	•••			•••		•••		***
8. F	(1) by rain Reading { (2) from canal	•••	:: -	***	•••		Ţ.			100
	(3) from river	•••	"	1**	•••		i .]	***
	Ints	•••	::: -	***		***	1	•••	1	***
	Other insects and blight	•••	:::		••	•••	• • • •	::		***
	Bad gormination of cultivation	•••		7,846	•••	•••	•••	e cue	•••	•••
12. E	3nd sail,	***	-	4,688	•••	***		8,508		***
12. E	High land					***	****			***
12. E 13. E 14. F	High land Klacellaneous	(**	***	29	*** 1	***	···.	416		•••

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS' RATES WERE REMITTED DURING THE YEAR 1915-16—continued.

	• •			Kharif,	1915.			Rsbi, 19	15-16.	,
	CAUSE OF REMISSION.	-	Area assensed.	Area remitted.	Total area itrigated.	Parcentago remitted	Area assessed.	Area romitted.	Total ares I rigated.	Parcentuge remitted
-	1		2	8	4	. В	G	7	8	9
	· · · · · · · · · · · · · · · · · · ·		Acres.	Acres.	Aeros,		Acres.	Acres.	Acres.	
:	LOWER SUTI.FJ INUNDAT CANALS.	10N								
1.	Wrong assessment	•••								
3.	Esempe irrigation	•••		· ··· }		***	••	, 	" }	***
3. 4.	Under Tenancy Rules Short Supply	***	i.	15,649	•••	***		1,434	···	••
5,	Hail			20,030			**	71202		. "
6.	Frost	•••		***		***	***	***		•
7.	High wind	***		*** 87	•••	•••	***			•••
8.	Flooding (b) from causi	•••	`	81	•		***	•••	·	***
9.	liats			8		•••	**		•••	•••
10. 11.	Other insects and blight	***		808		***	***	•••	"'	***
12.	Bad germination or cultivation	***		5,G42		•••	•••			***
i3. I≰.	Rad soil	***	•••	7,327	•••	***	•.	4,033		•••
5.	Miscellansons		:::	120	•••	•••	***	6,625		***
	<i>‡</i>		<u> </u>							
	' Total	•••	91,668	80,667	122,335	25 07	, 150,145	11,092	161,237	6.5
,	MUZAFFARGARH INUNDAT	rion								
•	CANALS.									
1.	Wrong assessment	***	,			•••	***	•••		•••
2. 3.	Escape irrigation Under Tenancy Rules	400			***	•••	•••			441
4.	Short supply	•••		6,026	•••	***	•••	3,020		•••
Б. 6.	Hail	•••	***	•••	***	•••	400	***	***	. ***
7.	High wlod -	•		***		•••	***	***	100	•••
8.	Flooding ((a) by heavy rain	100	***	***396	}	***	•••	"148	**	•••
	Fleeding (a) by heavy rain (b) from canal (rive	400	***	***	:: }	***	***		***	***
0.	Locusts	•••		74	[***		4.0	***	••
1. 2.	Other inserts and blight Bad germination or cultivation	100		841	•••	•••	•••	1,654	***	•••
	Bad soil	***		3,737		,,,	* ***	8,190	•••	100
4.	High land	•••				•••			•••	,
Б.	Miscellancons	•••	•••	1,134		•••	•••	1,171	***	•••
	Total		126,751	11,228	137,079	8.18	225,233	14,183	239,416	5.9
8	BHAHPUR IMPERIAL CANA	us.								
	Wrong assessment	•••		· }	}		i	•••		•••
	Recape irrigation	***		•••	•••	••		•••		***
8. 4.	Under Tenancy Rules Short supply	•••		220	***	•••	4	642		***
b.	Hail	***			•••	Ì	•••	202		***
6. 7.	Frost ; High wind	•••					•••	***	-	•1
8.	Flooding ((a) by heavy rain (b) from canal		***		}	•••	•••		-	***
o. 9.		į		•	[•••	•••	***	***	•••
	Locusts	***	***		1	***	:	***	,	•••
1.	Other susects and blight	•••		1,414		••	•••	943	•••	•••
2. 3.	Bad germination or cultivation Bad soil	***	•••	140 33	•••	***	•••	114	***	***
4.	High land	•••		25	•••	•••	***	••• \		•••
	Miscellaneous	•••							•••	";
	Total		7,617	1,812	9,429	19:21	15,430	1,900	17,380	10-9

STATEMENT SHOWING AREAS ON WHICH OCCUPIERS RATES WERE REMITTED DURING THE YEAR 1915-16—concluded.

		ı	Kharif,	, 1915.		i	Rabi, 19	015-16.	•
Cause of Bemission.		Area assessed.	Aros romitted.	Total area irrigated,	Percentago remitted	Aren assessed.	Ares temitted.	Total area irrigated.	Percentage remitted.
1		2	8	4	5	6	7	8	9
<u> </u>	`,	Åeres	Acres.	Acres.		Acres.	Acres	Acres,	
GHAUGAR CANALS.									
1. Wrong assessment						•••	l (
2. Escape irrigation		•••		•••	•••	•••		/	•••
8. Under Tenancy Rules		***		844	•••	***	1 1	100	***
4. Short apply		***		•••	•••	•••	1,204]	•
5. Hail				•••	***	•••	; l		***
Front	•••	•••	•••	•••	***		••		•••
7. High wind	•••	•••	· · ·	•	*** ,	***	j 1	•••	***
3. Flooding ((a) by heavy rain (b) from canal	•••	•	•••		•••		l I	1	***
). Rats	:::	***	•••	*** 1		•••	::		•••
). Locasts	- ::	***		•••	'''		:		•••
. Other insects and blight			40		·			1	***
Bad germination or cultivation	}	•••	7						•••
. Rad soil		•••	. [•••	-		1	***
l. High land		***	4**	***	•••	•••			***
i. Miscellaucous	•••	•••	•••	•••	***	•••	i " 1	1	***
Total		4,183	(A) 47	4,2^0	1:11	19,740	'B) 1,204	20,914	5-7
SHAHPUR PROVINCIAL CANA	Ls.								
Wrong assorament			1					1	
. Cacape irrigation	**1	·	***	***		***			110
Under Tenancy Rules	1	:::	1		::	444	689	::: 1	***
Short supply	[,			•••				***
. Hail	ł			•••		***		ł	444
. Froat		•••	•••	•••		***			•••
High wind				•••	•••	••	[***
Ficoding ((a) by heavy rain	••• [••• [- **	**•	•••	{ ···		•••
¥14.	***	***	***	***	***		''		***
N - amountar				***		***	l :: I		***
Other Intests or blight	-:"		:::				::: I		
. Pad germination or cultivation		[456			***	19		
Bad soil				•••					***
High land		•••	[***	•••			***
Miscellaneous	***	•••	•••	i	`	• •		***	***
	ŀ								·
Total		4,071	450	4,527	10 07	13,659	708	14,367	4-9
							A) (ii)	
	r						/	,	
Roitiah	,								
British	•••	8 ee		***	101		40 1	49	
British Brkanor		• ~		***	101			49	

APPENDIX B TO'STATEMENT I. E.

STATEMENT SHOWING AREAS ON WHICH OWNERS' RATES WERE REMITTED DURING THE YEAR 1915-16.

	•				Rharif, 1915.			Rabi, 1915-16	•
ā.,	CAUSE OF DEMISSIO	ж. ¦	•	Area hasessed.	Aren remitted,	Percentage remitte 1.	Arcs assessed	Ares romitted.	Percentago remitted.
	LOWER CHENAB CANAI	circle.			•				
1.	Wrong assessment	4114]	·	***				
2.	Escape irrigation	***		***		•••	•••	:	
3.	Under Tenancy Rules	•••			***	, /	•••	•••	•••
4.	Short Supply	***	•••		***	•••	•••	***	1
Б.	Hall	660	••		45.1	***	100		' 100
c.	Froat	400	•••	1	***	•••	146	, 	***
7.	High wind	•••		•••	•••	***		••••	•••
8.	(a) by heavy rain				•••	***	100	•••	•••
	(b) from canal	***			•••	•••	015		•••
9.	Rats	***		•••	***	•••	• ***	•••	
0.	Locnets			***	71.	· •••		•••	***
1.	Other insects and blight	•••			500	444		•••	
12.	Bad germination or cultivation	\$ 444 · · · ·			•••	 e ,	194	•••	
8.	Bad soil				400	•••	•••	••••	400
4.	High land	•••		•••	444	1	949	***	***
5.	Miscellaneous	***	•••		400	40	•••	•••	•••
	•		-						
		l'otal .	-	***			•••	**	•••

STATESTEAM SHOWING INCIDENCE OF WORKING EXPENSES AND ASSESSED WATER REVENUE ON THE CANALS IN THE PUNIAR DURING 1915-16

-	ed? le		Watde-bats Ässny	Ta Assnabud	680 IT 1915-16.		inauns	direct	-gret	WORKING	NO HXPSH4ES.		Осспринав, ватив,		Total Water bate Direct and indirect	R BATS KDIRROT.
Names of Catals.	Aserage discharge of years bear bear bear bear bear bear bear bear	rolumo cocapica, in o	Owner's,	Total direct.	factitect,	Total direct and in- airect.	Gross average rock, from all sources,	Vorkieg expenses, and endirect.	Area assessed during	Per cent. on gross tercino.	Per 2016 23-224ed.	Per cuses of dis-	Per acto assessed.	Per cuses of dis- charge.	*bocsoess 672.8 10 ⁻¹	Per cusec of dis- charge.
. 1	n	8	*	10	0	t-	80	6	01	Ħ	13	13	14	16	16	11
Maton Inntaatior Works. Western Jumin Court (including Sira Bruch) British and Patists).	eh 3,516	Rs. 16 30,42,789	펺 :	Ra. 30, £2,769	1k. 2,30,990	Re. \$2,73,750		Rs. •13,03,659	Acre 500,269	0J \$ 7	1.86	435	17.00	88	4.00	036
Birbind Canal (British)	2,913	13 34,69,073	:	36,60,072	123,63	37,58,623	40,57,967	12,38,853	89 1,457	30-91	1 39	425	4.10	1,260	4 20	1,390
" (Pativis, Nabbs and Ind States)	2,110	012,191,576	i	21,91,676	:	25,91,570	25,85,019	8,31,016	577,811	32.15	1.55	308	4:31	1,181	4.31	1,181
Upper Beri Dorb Canal	#12 ⁴	11 38,38,501	:	33,38,501	6,16,293	\$5,53,793	47,32,200	13,72,563	1,122,373	20 01	1 22	326	27.c	911	3 97	1,057
Lower Earl Doab Canal		70 4,89,519	:	4,59,519	1,20,056	6,10,505	0,10,099	6,50,985	209,114	103-56	3.11	330	135	248	2 93	310 ,
Upper Clenab Caul	2,363	CS 13,88,502	:	13, 11,502	770,10	13,05,579	14,35,353	8,33,15	317,953	5300	8	820	4.23	563	4.43	. \$69
Locer Clearb Canal	8,003	c3 83,39,01s	24,563	63,63,577	81,51,530	1,65,15,167	1,04,02,772	32,71,393	2,237,245	15-61	1.16	605	3.73	1,043	7.38	2,063
" Jhelum Canal	3,331	31 27,33,113	:	27,33,118	11,72,313	192'20'25	12,75,178	817,959	\$11,536	19.13	10.1	222	337	830	6.18	1,281
Upper Sattej Canals "	3,131	3,51,795	:	3,51,795	2,01,273	6,50,009	5,65,300	4,09,708	256,171	ea 27 ·	1.63	131	1 33	113	3.08	177
Sidanai Garais	1,658	88 470,188	- -	1,70,188	2,69,329	6,70,517	6,80,632	1,16,593	223,219	21.33	99 0	37	112	279	3.07	403
Indus Inaudation Canada	3,184	84 1,67,909	:	1,67,909	1,50,237	4,18,130	4,09,501	4,11,531	132,029	2046	8.	651	0-93	23	230	131
	- 15 	505 55,270	:	55,270	10,937	Canor	CO,335	52,887	23,0 57	19-61	61 81	101	230	109	2.87	131
Glaggur Inundation Canals (Brilish)		415 18,507	:	16,507	:	18,507	18,509	38,013	21,817	19556	165	84	0-83	45	0.86	46
" (Bilaner)		118 \$3,408	:	8,503	;	8,503	8,563	+16,585	2,106	193 08	7.83	131	3:89	E	3.00	n
Lower Sutley Inundation Canals	1,956	56 2,64,731	:	2,01,731	3,11,338	6,76,069	5 79,952	285, 55 5	211,813	40.53	1.18	116	1.00	133	3-38	102
Chenab Inundation Canals	2,304	0.1,75,170	:	1,75,170	2,61,190	4,39,360	4,42,618	172,292	111,852	38 03	1:31	12	1:33	22	3.10	117
Mazaffargarh Inundation Ganals	6,169	59 2,75,088	:	2,75,039	3,70,231	6,45,973	6,51,855	357,977	180'120	65.63	1.03	13	0.78	S ₂	1.83	118
Shahpur (Provincial) Inundation Canals	 -:	351 27,383	:	27,333	6,233	33,616	33,211	40,953	17,730	119-60	2:31	116	1.64	4	1.80	23
Ravi Inuniation Canals	:	:	:	:	:	 :	888	2,383	:	268 36	:	:	:	. 4	:	:
								1	1							

*Includes Its 32,436 actually spont by the Patiala Stato.

† " Its, 11,821 actually spont by the Biknucz Stato.

‡Tigures reported by the Biknucz Stato.

STATEMENT OF QUANTITY AND VALUE OF CROPS

										<u> </u>			
		NAME	07 C	AOPS.		Weiter.	lanat Ctate '	Eisnen all)	D CAREE	(NATIV	TO CAMAL TO STATES		Banz Doan
English.		Vernaes	ılsı.	Sei splife.		Arot geressed to water-takes.	Estimated value.	Ares a-sexend to water-rates.	E-timated vaine.	Area strered to	Estimated vains.	Aros assessed to water-rates.	Estimated raine.
1		,		5		4	B	0	. 7	8	9	10	11
Cercals		-				Aeres	Rg.	Acres.	F-1. 1	Aeres.	No.	Actes.	Es.
Wheat	=	Gehun	*1	Trilleum estirum	400	231,4%	62,05,875	290,653	1,13 35,457	187,777	£0,22 0 (A	214,187	95,23,215
Nerley Rico Blaire Ouis Ulixed Orain	*** ***	Jan Jhona Malki Jawi	•••	Honleum rolgare Orgza satira Zea mars Arana satira	***	18 660 22,206 3,274 635 63,799	1,79,00	151,012 89,363 	43,37,526 13,65,319	113,010 3,447 46,101	31,70,292 1,10,378 10,56,893 4,16,610	0,251 52 549 85,617 4,045	1,67,630 41,46,690 35,47,197 1,39,350 42,54,339
Mixed Office Miseellaneous Milicis and Polses-	***	Berra	•••	Ξ		3,231	71,093	′2	41	13 cq7 3,012	C0,261	191,579 21,765	4,78,830
Great Millel Spiked Millet Italian Millet	**	n Jawar Bajra Kaogni Mandwa	 	Forehum vulgare Pauleitiaria spieatu Setanu Italica Eleugine coracana	**	89,593 20,183 318 150	22,13 025 4,03,660 2 340 5,000	9 11,277 711	2,43,425 - 11,931	2,127 . MI 110 39	17,005 18,091 370 700	43,5°8 1,1°8 1,330	10,69,475 29,328 33,250
Gram Lontil	100	Sawank Chana Masor	•••	Panieum framenineum Cicer prietinum Errum leus	**	Č4 523 0,169	13,01,014	115,175 376	20,47,025 7,693	50 679 22)	7,01,414	63,922 3,532	11,70,206
Peos		Raman Mattar	•••	Piram rathram		· 6,5*7	PG 710	1·	~~ na	7		73, F4)	88,900 1,700 2,400
•••		Mark	***	Physical radiates Physical mange		4°5 231	8,55g 4,42)	85 31	827 5,570	121 F5	1,7(0	14	14,160 4,000 3,55,075
Mixel Grain		Math Gase Bress	#1	Phariolas aconitifolis Cymmpres promioides	=	64) 12 97) 1,237	0,000 2,00,025 37,110	1,107 1,167	15,75,197	2,777	915 81,470 49,700	18,473 18,735 8,620	4,18,370
Mixel Gram	•	Chens Maidal	 	Panicom miliaceum				··· 31	1,645	2 m:	3,120	8,520 197 124	4,930 3,170
Miscellaneous	-	***	•••	***		1,632	21, 150	***	• =	***	-	5	13
Drugs and Spices-						617	23,527	22			1,310	1,501	1,27,61)
Tobseco Poppy Anisera and Dill	-	Tamalu Poet Alwain	*"	Nicotlana fabsenm Paraves somniferum Plychotly ajwain	100	· - 1	- 42	-	1,763	It	1,3.0	**	***
· Fencestek Corrandes	:	Noth! Dhanulu		Triconella fennererium Corrindram sallemm	=	13,717	3,51 175 5,000	87	2,250	= ,	121	217 69	5,425 2,720
Cammia Tarmere	***	Ziri Haldi	100 171	Caminam officinals Carcam longa	=		=	••	**	 Pm		<u>e</u> s	1,470 610
Acisaci	"	Stunf Kesal	**	Pimpiuella anieum	-	- 3 10	127	•••	- 1	10		29 2	30
Miccellaneous ibres—	"	•••		***		••	1,600	*** *	Pos	10	503	•	
Cotinu		Pul		Gosspinm herbscenn	_	105,591	30,00,704	1,801	49.763	13,599	4,42,021	89,597	28,43,700
Rosells hemp Tales kemp	-	Sinni Gan	-	Hibirens eranahinas Certelaria Jances	-	C21	10,000	721	P,771 22,270	(22	1R,000	1,4ng 660	7,920 1,980
evoralleralM.)(anjkana		Sicebatum manja	-	***	:-		•••	***	***	***	**
);r:~	- {				- [,	
Indico Herns		Nil Mehnli	:	Indicofera tincloria Isane una alba	=	<i>5</i> ,117	1,27,025		•	🛪	2,765	***	***
Hiscollageous Miscollageous	::	Karumba	-	C ribamam linelorins	-	***	::	:::	:: 1		p.,	;··	***
il-reals	ı	••	}	•					1				
Gingeliy or Stalms Raps	<u> </u>	Til Sarson	-	Sessman indicam Insestes compositio		22 12,800	1,475 2,71,000	4 743	1,30,279	10 6.23	203 1,63,634	2,755 7,200	80,275 2,16,810
Do. Lipsced far		Toris Tarardira		Do (Vnr. toris) Erres sativa		··· 1	··· 31	3,793	29,034 B,044	6,2,3 157	4,705	41,677 767 871	16,10,°01 26,074 10,231
Miscellancous		₩)		Lippin tests lestropm		1	21 81	6	130	₩ F	504	913	37,635
ruits and Vegetables	-				1		, .	-				,	
Orchards Chilles		Hirch		Capricars annum		737	79,121	້ າພ	jinan	P14	23,620	102	63,143 3,76,163
Niclons Carrols		Kharbaza Gajar		Cacumis melo Daness carota	=	1,625 631 150	01,2'/0 27,410	3,972	1,65,100	213	1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50	9,401 112 10	6,720 200
Cres Onlons Turnips		lisium Piez		Lendiam settrum Alliam ceps	=	125	6,570 6,570	13 *** E40	23,670	10		341 7,600	19,735 20,561
Water-pols Gardens	=	Falgam Blagbara	***	Bravilea rapa Trapa bicornis		197 9,713	9,71,20	··· 618	61,622	1,622	1,52,500	801 9,851	30,217 0,63,427
Put-toes Vegetables	-	Alp 1 n-karl	-	Solenum tuberosam	-	100 2,158	1,74,970	7,721	1,59,400	917	£4,190	4,400	31,707 3,08,427
Miscellancous	_	Lel-san	•••	•••		*** 74	1,400	110	200	#11 #1	:::	··· 122	3,650
older-					-			•					** ***
Pateina kinza	-	Laste ghas Sorje	-	Medicago valira Du. var.	-	1,007	\$6,250 315	#0 24,419	1,725 5,63,740	22,517 705	195 4,58,750	457 09,210	26,463 27,76,300
Grass Millets, etc.	=	Charlet	= 1	***		15,517	2,610 4,16,175	165,813	4,870 49,71,390	1,50,975	18,150 39,00,250	1,215 80,705 213	18,225 21,21,240 6,525
Sagarcano	-	Mains Ganna		Eaceharum officinarum		F9,167	อรับราร	1,007	1,23,576	2,253	2,02,608	29,301	41,08,623
Miscellancous		Shaftal Methra	•	910 981		###	= :	767	4,750	3,199	10,101	5	100
Wildcompoons		•		⊷ Total	. I	796,714	3,17,91,019	£90,211	2,75,63,575	671,519	1,79,94,023	1,103,989	4,22,54,070
Fallows		100		10121		4,001		7,471	+	5,*-9	***	1,970	*
g ngl• milcring Plantal lons	:::	***		***			=		·	505	::	16,017	***
Aliscellar ecus Warle oi water	::	***		••• •••	İ	1,477 165 4,519		702	•••		***	122	***
Palaver	-	••		Gnave Tenas	- }	E00,200	3,17,94,049	F04 457	2,73,51,570	577,611	1,70,91,020	1,122,375	4,21,51,970
	1		- 1	GRAND TOTAL		600,203	A111221012	E01/83/	-1.010.1010	3,1,011			

E. IRRIGATED IN THE PUNJAB DURING THE YEAR 1915-16.

CAME BA	Et Doan	UPPER CHES	CAWAL.	Lowez Car	WIR CAPAL.	Lower Jun	IUM CANAL.	UPPER SUTLE: CANAL (INCL. SOULD AN	DING LOWED	Siburai	CAMAL.
Ares assured to water-rates.	Estimated value.	Arca assessed to water-rates.	Estimated ralue.	Ares assessed to watter-rates.	Estimated value.	Ares assessed to water-miles.	Betimated value.	Aren neressed to water-rates.	Estimated value.	Ater resonsed to witer-rates,	Estimated ralue.
12	13	14	15	10	17	18	10	2)	21	23	23
Acres.	Rs.	Acres.	Re.	Acres.	Rs.	Acres.	Re.	Acres.	Rs.	Acres.	Rs.
26,092 4 496 2,639 18,149 1,511 18	23,82,275 1,10,664 2,17,461 4,80,260 60,440 540 40	80,991 6,312 103,216 8,761 **** 1,112 100	26,75,761 1,64,112 (6,01,020 2,71,654 31,263 2,000	1,010,114 20,797 32,613 106,270 610 8,869	3,63,68,690 4,78,331 17,89,216 32,49,250 24,780 2,60,070	865 126 11,F13 4,271 21,420 11,291	1,50,10,036 3,16,700 2,31 005 6,47,600 4,55,610	42,670 1,503 21,679 6,4% 7-3 66,621	11,85,619 39,078 11,01,"14 1,78,1*2 23,250 15,18,720	83,185 3,070 17,541 2,059 	27,43,455 70,920 3,68,36 6 6,60
8,781 7,970	1,64,570 2,01 614	18,654 1,243	3,59,150 31,278	FD,027 21,323	14,01,613 6,28,01,8	72 618 20,517	12 22,773 5,42,022	7 057	1,83,491	10,169 3,312	0,07,211 80,113
410	11,000	10 101	31,278 250 *** 2,100	293 31 212	8,10,927 7,270 610 4,810	12 413 1.775	000 0,180 31,100	E 268	20,075 5,920	401	1,270 8,080
2,072 79 1,331	27,531 0,00 1,00 1,00 1,00 1,00 1,00 1,00 1,	11,573 318	1,00 CM 0,450	67,566 7,695 2,699	11,44,849 1,10,550 19,750	19 117 4 775 1,868	3,40 213 1,40,250 37,300	20,399 81 10	4,48,783 1,620 210	14,532 199 1,293	2,47;011 3,960 19,365
\$23		Ξ ,	1,020	77 002 011	27,009 27,009 3,000	71 en 2 pen	2 230 3 090 41,320	PR9	23,040 1,000	1,130 3,324 189	21,720 1,16,310 3,787
1,m1 678	******** 21,975	29	7 6	10,347	2,79,675 2,27,427	3,630	1,09 100 69,250	5,136	1,22,727	812	12,630
2,612	70,500	32 101	e10 1,515	57 57 6	60,870 740 60	7,161	1,79,775	788	"19,6") :	3,163	47,745
218	10,810	្តព			29,067	1,418	1,13,410	35	2,010	***	••• •••
49	1,920	984 984 984	' (*** 	# 312 637	0,550 21,450	11 34 431	440 950 19,210	and	12:50	112	4,450
52	5-0	614 107	004 141 441	** 69	100		160	55	2,210	***	000 000 000
=	903	:::	;== (:1	*** 285	*** 4,276	***		. =		10	" 15
18,503	4,57,419 3,970 540	2,1*2	5030 030 030	167 471 493	27,02,478	11,571 015	1,36,463	11,874	8,07,101	22,622 110	2,58,22/ 2,580
9	644 644 746.)	4h	1,341	2,165 18	0/0,77 C40,8 ***	26 20	900 280	303 76	r 1,110 r 1,110	***	***
***	019 010 444	25		25 14 60	1,000 420 1,800	3 202	86 6,000	Bi	•ii 550	\$50	-1,03
-	41		***	,,, °	en sjew	255	7,630	***	::	=	***
11,716 3,736 26,644	2,62,670 93,750 2,21,100	626 3 ** 9 27,131	14 832 60 436 4,07,409	1,712 F3 137 160 p13	RG,852 11,69,297 70,25 425	Pri Bace	75,772 1,37,864 20,03,465	6,25% 193	2,00,575 4 H77	7,571 157 1,690	1,89,17: 3,94: 47,000
1,545	7,21,100 43,000 625	• 1,595 fa	24 K10 1,008 00	1,112	23,032	91,775 17,841 023	1,87 M3 12,020	611 867 13	10,073 0,175 185	1,893	47,82
		• 1	~	•••	•••	м•	***	•	. "	_	
4,619	2,43,400°	477	23,600	\$7,010	້າ,ຄາດ 15 ຕຳຄາດ	*** *1 15,10**	0.5° £4°8 Uec b	" 11? 87	#,500 2,810	20	6,30
16	6sn	3	165	274 10 214	11,500 170 19,500	205	8,101 491	:- 49 : 1	1,410	•••	**** **** ****
0,843 22	2,61,720 2,200	6,097 97	2,30,447 3,700	50,474 2781	22,50,600 2,54 100	27,020	10,81,160 '1,61,300	13,022	5,20,890 23,700	15,009	3,00,160 12,600
940	C0,220	261	18,050	6,532	8 210 4,70 640	"" 1,435	1,00,450	. 75	4,600	138	8,25
6	160	200	6,000	278	. E,310	** 111		***	***	=	***
137 2,510 Fes	6,830 7,630 10,970	6,000 1,850	100 1 Pr Pro 1 Tr roo	21,5°0 110,°00 5,177	10,14 000 31,01,000 1,18,100	2,752 14,090 7,014	1,37,670 4,25,400 7,11,320	16 fn1 19,916	700 10,020 1,32,50	5,927	 89,908
17,970 40 431	63,610 1,227 63,125	8,177 2,671 3,096	2 45,710 00,775 3,40,762	747 PG 1180,8 888,03	20,86 770 2 02 176 40,86 730	4,3°9	1,50,150 1,09,076 3,00,810	40,418	14,52,530	13,007	2,60,140 69,378
237 3,879	7,176 77,690	*** 10 321	400 6,490	201 0,018 1,202	13,016 1,05,705 21,045	5,051 3,072 1,014	1,81,900	1,557 2°P 6°8	1,73,025	2,778 166	45,160 2,340
212,776	63,80,132	\$03,011	1,21,00,460	2,228,701	7,19,70,303	1"0,°5 616,704	4,61,687 2,60,00,712	7,04,071	18,767 81,13,767	223,219	55,23,19
4,319	948 648	573 14,416 3	441 444	8,4A3 EA	:: '	nia Con,E	***	120		## ## ##	101 191 611
=	614 400	* 		1	949 999	154	614 646	***	191 949 941	111 111 111	001 E00
*237,172	CJ,39,498	017,953	1,21,60,450	3,237,281	7,10,76,503	811,696	2,66,00,319	2,66,171	81,43,700	223,219	55,20,18

*lucludes 39,038 apres remitted under Tenator Eules.

STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED

									JI 040	-~ 11010	LGATED	
	Nike	CT C	2074.		CAS	VADITION FALE,	Ise	e (lupuviai) Wdation Walf,	Grico (Br	ix Cixiis IIISO).	Grane. (Bra	IZ CAMALS (ANDS).
Engilah,	Varnace	ılar.	Scientific,		Area antereod to water-ration.	Estimated raine,	Arra agreeod to water-rates.	Estimated value.	Atda nescencil to water-tains-	Estimated vaffle.	Arca ansested to welce-taids,	Retinated value,
1	3		3		25	23	26	27	23	23	30	31
Careala-				_	Acres	Rs.	Acres.	Es.	Aeres.	ks.	<u> </u>	
Wheat Barley Rice Marze Oats Mixed Grain Mixeellaneous Millets and Pulses	Gehon Jao Jitona Makki Jawi Berra	0 mm p e 1 p mm p mm p mm	Horicom vulgare	600 600 600 600	74,174 2,010	20,04,143 53,010 13,30,112 453	11,31 16 29 10; 17;	3,73,923 3,773 15,730 2,534	4,297 9,550 4,513	1,53,715 ,19 625 117,00		2,045 15,700 20,050
Miscellaneone	Jawar Rajea Rangni Handwa Fawank Chana Jaster Rawan Jattar Mach Mong Moth Guar Cheena Maddal	**** **** *** *** *** *** *** *** ***	Sorphum vulgare Panicillaria spicita Seiaria Bialica Elersina coracana Panicum frumentaceum Carer oricitom Errum seis Pisum salivum Phasedus radiatus Phasedus moneo Phased	, , , , , , , , , , , , , , , , , , ,	10,4es, 13,6rs	8,70,218 4,87 054 2,67 054 1,857 054 1,857 00 1,857 00 1,87,100 40,890 21,070 	2,734	140 60,618 5,430	- 6,512 - 6,512	1,53,753	258 	4,561 4,561 3,100
Aniseed and Dill Feorgreek Coriander Commun Turmarie Aniseed	Tarraku Post Aferan Methi Phacula 71rs Haldi Sauni Kosul	#: ** : : : : : : : : : : : : : : : : : :	Nícotiana tabacum Paparer romniferum Pirebolis ajwain Pirebolis ajwain Pirebolis ajwain Cornandram estirum Cornandram estirum Cornandram estirum Cornandram estirum Pimpinella anisum ****	111:111	1,577 24 23 23 210 2102	79,650 2,620 2,620 1,630	55	2,500	- 1 	- 000 - 000 - 140 - 000 - 000 - 000 - 000 - 000 - 000 - 000 - 000	 	100)
Cotton Rosella bemp False hemp Miscellancous Dyes	San		Greerplum herbeecum Hibiecus espasbinus Crolelaria junces Escebarum munja	-	11,0ns	2,73,665	1,255	15,019	640 +12 Tea 163 Sea	000 101 100 000		300 044 374 200 649
Indigo Henna Fafflower Miccellaneous Oil-seeds—	Vehndi Kassumba		Indicatera tinctoria Leuronia alba Carthamum tinctorius		1,062	42,450	4	120	*** *** **1	200 200 200	1+1 	900 900 800 810
Girgelly or Sesame Rape Do. Linseed flax Miscellaneous Fruits ond Vegelables	Faren Toris Taramira Alsi		Sesamum budicum Brassica compertis Da (Var. toris) Eruca estiva Linom ositaticsimum	31 30 31 31	(74 189 (3,02)	16,550 4,270 60,725	49	1,127	499 814	10,479 • "6,634	169 	3,160 1,009
Orekards Chillica Melona Carrole Cress Onions Turnips Water-note Garden Patatoes Vegetables Micrelianeous Fodder-	Kharbuza Gujar Halum Piaz Salcam Sunghara Alu Tarkati Lehena		Capelrum anonn Cucumismelo Dancu etroir Lendiom estirum Allium erga Bruveica rapa Crapa hicornis Solanum tobercsum		2715 184 27 27 215 3,C13 254° 510	35,600 815 25,400 35,400	52 11 1973 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	2,600 39,120 6,000	312	7,620	1 15	100
Luceme Grass Gras Milleta, etc. Sugarcale Liscellareous	Scoji Gras Charri Maina Gauna Shaltal Methra	-	Medicago ratira Do. rar Seccharum offenorum Total		2 E,Eco 1 55 170	40 3,43,860 20 10,625 3,000 85,67,924	2,705 3,203 26 23,047	7,17,07L	21,603	5,67,501	2,106	61,723
Single wateriog Plantations Airectioneous Waste of water Palayer	900 900 900 900 401		GRAND TOTAL	-	152,029	85,69,981	23,047	7,17,076	21,917	5,67,751	2,128	51,723

CONCLUDED.

IN THE PUNJAB DURING THE YEAR 1915-16-CONCLUDED. .

	CANALS.	CHRNAB INUS CAMALS		Muzaypangani Tion Can	ALS.	SHARPUR (PRO- INVEGATION (CANALS.		
Aren nesessed to water-rates.	Estimated value.	Aren assersed to water-rates.	Estimated value.	Area necessed to waler-rates.	Estimated value.	Ares as-ested to water-rates.	Estimated value.	Total area assessed iownter-mics.	Total value.
23	83	85	35	36	37	88	30	40	41 '
Acres. 106.937 9,511 1,923 19 1,511	11s. 22,45,467 92,046 41,922 279 61,619	Acres. [50,527] 1,412 12,903 1,413 Cl;	Rs. 11,97,047 26,712 2,08,632 20,673 	Actes. 150,772 7,873 E4,010 20	Re. 31,61,792 2,01,693 11,51,299 420	Acres. 2,091 13 1,609 10? 6	Rs. 68,673 200 1,64,415 2,017 240	Acres. 3,041,219 300,106 400 207 502 704 21,107 271,617 30,180	Rs. 10,82,65,529 98,01,737 1,89,0,055 1,10,07,786 7,53,839 87,26,192 6,50,000
25,568 20,048 72,9 1,517 7,517 7,512 63 61 707 10,437 	4,81,793 5,21,313 74 fcm 8,426 50,346 1,72,401 160 8,755 190 21,600 6,755 9,210 2,03,7 in	6.770 3.417 101 4 5.707 64 2.707 64 2.707 155 896	1,20,670 \$69,512 2,027 50 97,674 5,640 1,070 1,070 1,070 4,090 20,590 35,741 103	7,728 15 F13 101 2 103 3 103 3 104 3 107 3 107 107 107 107 107 107	1,41,872 4,13,343 2,170 40,250 60,850 4,74,611 40,850 60 1,18,040 2,023	901 913 	14 410 5,539 en 9,461 1,920	411,250 139,211 4,100 9,242 7,002 475,630 23,815 7,027 16,000 7,700 4,416 47,775 100,005 0,530 10,425 4,117 1,787	85,40,070 34,91,125 97,414 63,545 1,53,241 96,37,256 5,56,700 1,46,075 2,90,326 1,12,655 10,075 26,80,110 27,805 20,805
9 1370 11 5	" 470 " 2 777 1,870 " 629	" 1 " 103	6,15°)	*** 322 *** 35 *** *** *** ***	"16,100 "1,500	7 300 300 300 300 300 300 300 300 300 30	## E60	7,007 1,011 12 14,011 2,211 23 23 124 49	\$11,000 05,850 9,501,00 83,811,00 63,811 7,641 4,932 7,641
7,031	77,37\$	0,581	1,00,3°1	17,002	1,40,623	85 1	1,020 *** \$0	479,109 5,225 4,075 104	1,18,18,49 1,65,85 131,43 3,78
3,41E	1,02,450 	2,631	75,930	3,293 	18,460	B13	"17,190 	10,673 902 315	4,52,1 25,0 0,4
0,135 371 1,295 6,852	0,2*5	7,678 37 713 1,210	71 950 925 17,825 51,100	151	1,62,775	Ξ,	27 230	100,536 385,005 35,811 2,005	10,eg,0 22,78,8 50,09,1 8,C5,5 49,0 18,1
10, 01 11,005 11,005 11,005	801 0,20,000 	167	11,220 3,31,360 1,51,000	21 21 21 21 21 21 21 21	9,370 3,63,600 95,800 25,450	500 500 500 500 500 500 500 500 500 500	2,050 2,050 11 B,24/ 12,100	7,018 1,993 627 807,719 109,719 20,537 632	2,03,0 83,64,0 82,0 11,6,8 41,7 62,10,7 89,2 20,63,7 65,1 14,31,8
5,174 50 4,047 2,083	1,55,220 7,275 80,090 40,215	2,145 11,031 1,200 2,027	32,1?? 4,20,030 1,00,530 62,400	4,071 2,491 10,317	5,83,872 40,823 2,41,750	78	9,102	15,191 150,401 150,407 8,339 24,099 49,660	13,13,6 70,35,7 12,41,4 13,45,7 3,81,6 2,03,70 1,60,7 4,81,7 2,4,11,0
211,913	570,10,23	141,653	31,17,234	3,51,61	 	17,730	;1E,E3,3	2,11,000 22,104 20,945 10,401 3,439 247 4,610 7 8,487,015	27,50,82,33

COMPARATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1915-16 AND 1914-15 IN THE PUNJAR.

					//		28										
lackes.	i.	1914-15.	13	2532	15.83 17.83 18.03		7. E	:	18:77				::	1	11 8 A	31.75	, , , ,
Raiveach, Inches.		1112 16.	==	1623	5 : e	:	: :	:	F 63	:	10-11	:	::	-		12-61 15-51	
		T.t.al.	22	10,772	21,530 21,530	120,015	(r) 53,457	68,937	8,57,8	100,0	11,511	(a)5 t3, t0n	1,1.7	£3::3	62,100 639,735 (a) 57,523 101,013	355,45	
	1911-15.	Pabi	12	110,778 101,749 101,749	141.293 1,7,14 16,000	103,097	21712	17,152	617	(4.0.8)	33,*13	201275	1921	2,135	201,541 27,237 17,237 57,534	1(4,27)	
tap in ach		Ktaeif.	=	11,317 119,313 101,547 1,550	128, p.9 6,037 9,330	112,935	38,239	51,695	165. 1.063	2:81	2 2,114	2.18,823	713	2,00.2	25,019 21,019 12,191 12,191	155-125	
Липа івнолічи ім депря,		Total	2	33,699 2 9,959 29,564 2,564	250,613 5,321 22,006	277,9:0	65,877 (69,84,65)	104,817	2,168 3,168	3,7.48	03,710	100'1997	1,615	100,8	62,999 647,75 647,610 6,00,009	371,129	
γ	1915-16.	Rabi.	0	22,727 123,136 123,117 1,301	331,957 3,016 17,783	153,761	31,711,22,767	61,191	95 3,156	112,8	29,611	411,507	2,269	3,558	35,213 61,579 71,472	32,544	
		Kharif.	ණ	10,072 86,523 81,174 1,250	118,656 2,965 4,219	125,170	24,113 17,163	43,336	193 113	495	35,119	230,527	1,911	2,035	29,735 171,169 38,503 31,637	101,301	
Area at present	proposed to bo annually crigated by	warks specified in cotamn 3.	(4) 7	37,416 260,391 245,395 2 103	926,737 9,780 46,834	233,351	3,671	179,63	17,309	17,769	55,301 109,618	167,910	1,392	4,013	70,567 434,657 30,317 70,700	251,13-6	
Caltample	manded by Irrigation		9(11)	00,707 . 672,473 619,141 4,805	31, 100 31, 100 72,078	128,120	210,233 8,200	227, 132	1 702 34,618	30,380	179,000 318,802	402,0113	12,161	15,360	250,153 1,254,244 1,17,273 231,137	600,602 127,639	
			<u> </u>	ب	1 1 1	:	::	:	::	:	::	:	::	:	4	4	
	Name.		9	Western Jumaa Canal	Western Jamua Canal Sirbund Canal Ghaggar Canals	Total	Western Jumus Canal Sirkind Canal	Total	Western Jumna Canal Gluggar Canals	Tolal	Western Jumna Canal Sirbind Canal	Total	Western Jumna Caual Sirlind Caual	Total	Sithind Canal	Upper Bari Doab Canal	
TRICT.	Cultivated	area, in acres.		540,951 1,117,161 1,104,817 717,891	3,010,718		3 608,817		682,283		2,902,907 {		70,267		729,246) 2,227,476) 5/10,707) 571,055)	761,441 821,537	
OP THE CIVIL DISTRICT.	Caltumbie	aren, in åeres.	6	073.381 1,337,736 1,721,682 873,416	3,162,957		809,258		4,036,957		3,162,619		87,503		2,412,633 51,8311 518,311 380,153	866,119 913,755	
0P T	11.00	in acres.	3	. 804,102 1,430,515 1,999,473 1,198,530	3,318,783		853,013		4,120,409		3,704,770		191,762		803,173 2,505,179 189,470 406,210	1,160,207	
	CIVIL DISTRICE.		1	Delhi Rohtak Karnal	Hiptar		Jind Elato		Bikaner Stato		Patinla State	,	Kalsis Stato		Ladhina Fer more Nacha Sinto Faridkot Sinto	Amritaur	-

4					•				
2610 2070 21-82	18.03	15-96 10 10 9 &8 11-49	0.48	20-73	18 83 3.00	13:39	21-21 24-43 24-43		:
. 6.7 . 5.55 3.60	1.60	2.72 0.73 0.79 0.01	0-73	6·15 4·10	2.23 1.6	3.28	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
785,802 80,146 765 9,047	359,533 708 149,715	510,003 331,639 219,398 55,234 36,423 36,442	378,511	484,430	1,626,37,0	296,471 195 127,761 124,363	680,696 42,697 30 861	13,038	8,963,041
450,612 50,893 384 1,450	204 n50 763 . 69,8 32	274,109 101,982 115,421 173,958 36,791 13,090	236,829	319, 01	1,081,295	198,018 83 86,202 281,333	186,438 27,453 10,515 521,312	8,562	6,312,183
331.661 29,253 381 1,597	165, 183 23 23 80,353	235,591 139,677 14,836 18,133 21,352	151,690	160,578	415,005	98,426 41,552 1191020	194,353 16,345 19,846 230,143	4,476	3,650,858
691,610 48,755 1,750 3,056	223,491 24 226,376	270,150 170,885 256,163 27,385 53,862	377,311	512,131	1,197 591	281,121 64 127,593 411 777	692,998 20,759 18 89 1	13,586	8,481,811
413,921 28,135 1,190 1,588	110,(01	214,133 163,151 96,378 116,993 11,991 39,726	2,19,371	357,171 13 1,628	1,079 071	195,692 42 90 569 286 291	517,329 17,330 14,367 549 025	9,430	5,635,630
281,589 20,300 560 1,468	113,867	206,258 117,999 84 107 109 870 12 164 91,136	137,957	155 281	416.570	88, (29) 87 032 125 483	175 667 9,429 4 527 189,625	1,156	3,219,185
487,530 93,956 3,575 4 899	£35,228	161.401 200.000 200.000 250.070 1.97.317	350,00	328 529	969 401	198 510 15 1, 76 353, 125	6 17 642 43 000 24,170 567 713	12,501	7.630,957
806,216 231,805 11,473 7,785	017.911 811.05.3	1, 652,021 344,150 360,313 9.5,159 139,328	67 1,9 12	707,050 1,22,1,540	1,493,701	133,019 323,638 756,687	\$20180 62551 53,255 53,255	18,647	18,643,31,
Upper Bari Deab Canal Upper Sutlej Iranadation Canala Upper Chenab Canal Lower Bari Doab Canal	Upper Sulty Inundation Consis Rari Inundation Can de Hajiwah Can la Lower Berr Doab Canal	Sidhasi Canal Cherab Inaudation Canals Lowers Sutial Januadation Canals Lower Lai Doab Canal	Murifiargath faundation Canals Indus Inundation (2018),	_		Lower Cheurb Canal Maraffargraft Laura-Ation Canale Lower Jholam Car al Total	Low r Jholum Cand Shyl pur (Imperal) Cands Shyhpur (Provincia) Canals	Liwor Jholum Canal	GRAND TOTAL
1,170,109	737,716	1,112,673	747,773	1,120,772 {	1,413,799 {	821,960	1,275,363	880,572	<u> </u>
1,519,087	2,257,231	3, 101,956	3,069,513	2,256,073	1,881,320	1,964,350	2,508,310	1,167,298	
1,746,771	2,747,733	3,811,214	3,567,209	2, 192,021	2,103,396	2,171,663	3,072,649	1,265,578	
Lalore	Montgomory	Nultan	Muzasfargarh Dera Ghasi Khan	Gnjranvala	Lyalipur ,	· Thang	Shahpur	Gujrat	1

(a) Columns 6 and 7 exclude the " culturable uses communical " and " rand present proposed to be annually trugated." by the Native States Branches of the States and Casel.

(b) Ditto 31,000 acres irrigated an ibo Native State State Branches of the State and Casel.

(c) Ditto 31,000 acres irrigated an ibo Native State Branches of the State Branches of

//I. F.
STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16.

		RATE PHE ACER.		
Authority.	Class.	Nature of crops. Pe	Per	
		WESTERN JUMNA CANAL INCLUDING SIRSA BRANCH.		
Irrigation Praceh Notifi- cation No. 0250 R. I., dated 24th August 1910.	1	OCCUPIEN'S RAPE. Sogarceno 9 0 0 6 0 0 Crop.		
	11	Rico and water-nnts 6 8 0 4 0 0 Do.		
•	, III	Tobacco, poppy, regotables, gardens and orchards, druge and spaces 5 8 0 8 8 0 Gardens and obsit year;		
	IV	Cotton, indigo, and all rabi crops, except gram 4 0 0 2 g 0 Crop.	,	
` .	7*	All other kharif crops, gram and masur 2 8 0 1 8 0 Do.		
Irrigation Branch Notifica- tion No. 620 R. J., da.od 15th May 1913.	VI	Single watering before plenghing not followed by a camil-irrigated crop is the same or next harvest.		
((Crops grown on the meisture of a previous crop Crop.		
	3	OCCUPIER'S RATE.		
Irrigation Branch Notifica- tion No. 1631 I. da.ed	1	Sugarcane, rice, water-nuts 4 2 0 2 12 0 Crop.		
27th April 1900.	ıv	Cotton, indigo, malze 2 8 0 1 10 g Do.		
	r	Other kharif crops 113 0 1 2 8 Do.		
	٧II	Special rate.—Single watering before ploughing I 2 0 0 12 0 \Do.		
		SIRHIND OANAL.		
		Zorb 1.		
		All lands irrigated by t'e British Branches of the Sirhund Cu al with the exception of those situated in the Fazilka Taheil of lae Ferozepore District.		
Irrigation Branch Notifica- tion No. 273 R. l., dated	1	Sngareano 12 0 0 6 0 0 Crop.		
21st December 1903.	11	Rice, orchards gardens, poppy, indige, dyes, drugs and spaces. water-nuts, maise, wheat, vegetables, except turnips 5 4 0 3 10 0 Orchards and half-year; torog.		
	111	,		
	IV	Eajra, jowar, cearl, moth, mung, mash, guar, china, masur, gram, turnips, pens, and all kharif and rabl fodder crops not specified 3 4 0 1 10 0 Do.		
irrigation Branch Notifica- tion No. 624 R. 1., dated 12th May 1913.	, v	Single watering before ploughing not followed by a canal-irrigated crop in the same or next barvest Also crops grown on the "wadh" of a previous crop Crop.	e.	
	VI		•	

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-18—CONTINUED:

			RATE T	ER AORE.	
Authority.	Closs,	Nature of crops.	Flow.	i Lift,	Fer
		SIRHIND CANAL—CONCLUDED. ZONE II. All lands irrigated by the British Branches of the Sirhind Canal in the Fazilka Taheil of the Ferozepore District.	Rs. A. P.	Bs. A. P.	
Irrigation Branch Not Coa- t on No. 273 R. I., dated 21st December 1904.	I		10 0 0	600	Crop,
	'II	Rice, orchards, gardens, poppy, indigo, dyes, drazs and spices, water-nuts, maize, wheat, regulables (except turoips)	500	280	Orchards and gardens por half year; the rost per crop,
	111	Cotton, chillies, meloos, tabacco, fibres, batley, oil-seeds, herra, senji, all non-fadder crops in kharif and robi not specified	8 12 0	114 0	Crop.
`	IA	I'nire, jowar, chari, moth, mung, masi, guar, china, masor, gram, turnipe, pees and oll kharif and rabi fodder crops not specified.	800	180	Do.
Irrigation Branch Notifica- tion No. 624 R. 1., dated 12th May 1913.	v	Single watering before ploughing not followed by a causi-irrigated crop in the same or next harvest	1 8 0	0 12 0	(Each watering,
		All lands irrigated by other than the British Branches of the Sirhind Canal.	J		Crop.
Irrigation Branch Notifica- tion No. 6615 I., dated	, 1	Sugarcane, rice, water-nuts	780	t o o	Сгор.
27th November 1898.	11	Gardens, orchards, tobacco, poppy, vegetables, indigo, maizo	4 8 0	800	Do.
,	111	Cotton, fibres, all dyes (except indige), all rable erops (except grow and masur)	3 12 0	2 8 0	Do.
	IA	All kharif erops not specified above and rabi crops of grom and mosur	210 0	1 12 0	Do.
Trigation Branch Notifica- tion No. 6/4 R. I., dated 12th May 1919.	V	Singlo watering before ploughing not followed by a causi-irrigated crop in the same or next horvest	0 12 0	080	Unch watering.
	ıv.	Special rate which may be made applicable to cheanels selected by the Local Government.			
		A single watering before plenghing for rabi followed by a rabi crop	1 8 0	100	Crop.

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—continued.

			:	Rat	E :	PE	B AC	RE.		•
Authority.	Class,	Nature of crops,	-	Flo	·		Į,	iift.		, · Per
,	•			_		_				
'		TOWN DANK DAIR GIVIT	B	ı. İ	l, Í	ē.	R	. A,	P.	
İ		UPPER BARI DOAB CANAL.	.			I				
		OCCUPIER'S RATE. Sugarcane and water-nuts	١,	, 1		۱	2	8	ß	Crop.
rigation Branch Notifica- tion No. 2621 I., dated 10th Juno 1891.	1		,							_
	II	Rica	1	3 () 1	٥	. 3	0	5	Do,
	III	Orchards and gardens, tobacco, poppy and other drugs, regetables, melons		. 8	3 ;	8	2	4	4	Orchards and gardens half-year; the rest crop.
	. IA	All dyes, fibres and oilseeds; all rabi crops except gram and masur		3 1	2 .	6	1	14	3	Crop.
	7	All kharif crops not specified above; rabl crops of gram and masur; all fodder crops		2 1:	2	Б	1	6	2	Do,
	vi	Special rates, which may be made applicable to channels selected by the Local Government: a single watering before ploughing for rabi followed by a crop		2 (D	4	1	0	2	Do.
rrigation Brazeh Notifica- tion No. 628 R. I., dated 12th May 1913,	ΔII	A single watering before ploughing not followed by a casal-irrigated crop in the same or next harvest	{	1	D	2	0	8	1	Each watering.
rrigatoin Branch Notifica- tions No. 349 R. I., dated 26th March 1907; No. 698 R. I., dated 11th	VIII	Village plantations on areas to which the pro- visions of Act III of 1893 have been extend- ed and District Beard plantations within the Chunian Colony.	1			i				
December 1907; No. 030 R. I., dated 2nd July 1908.		For any number of waterings in the khatit		1	3	4	0	9	8	Half-year.
		For one watering in rabi season		1	3	4	0	9	8	Do.
		For two or more waterings in rabi section		2 1	1	7	1	6	0	Do.
		LOWER BARI BOAB CANAL.					l			
		Occurren's Rate.					1			
rigation Branch Notifica-	I	Caue and water-unts		9	0	0	4	. 8	0	Crop.
tion No. 547 R. I., dated 23rd April 1913.	11	Ries		7	8	0	8	12	0	Do.
	111	O-chards, gardens, tobacco, poppy, indigo, drugs, vegetables, melons and wheat		Б	0	0	2	8	0	Orebards and gardens half year; test per cr
	IV	Cotton, fibres, dyes (other than indigo) oilseed and all rabi crops, except wheat, gram, masur senji, mains and turnips	,	4	0	0	2	: 0	0	Crop.
	V	All kharif crops not otherwise specified		3	0	0	,	. 8	0	Do.
	VI	(a) Gram, masur, scuji, turnips and maina	.h							
		(b) Crops grown on the "wadh" of a previous crop.	- 13				١.	. 2	•	(a) Crop (b) and (c) ac
		(c) Single watering before ploughing for rab followed by a rabi crep to be applicable only to channels selected by the Local Government.		2	3	۷,		. 4	. "	(4) 6109 (6) 2112 (6) 20
	VII	Grass, viliago and District Board plantations-					1			
		For any number of waterings in khari- ceasen.		1	4	0	٥	10	0	Half-year.
		For one watering in 16bi season	1	1	4	0	1	10	0	Po.
		For two or more waterings in rabi senson	\cdot	2	8	0	:	1	0	Io.
	VIII	(a) Singlo watering before plenghing not followed by a causi-prigated crop in the same of next barvest.	١١,		_	_				Agre
		(b) Hemp (srn) and indigo which has been ploughed in as green manure before the 15th September.	a fij	0	8	0		D 4	. 0	Acre.

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—CONTINUED.

]	RAT	R P	E I	CRE		1
Anthority,	Class.	Nature of crops.	1	low			Lift		Per
			R	s. A	. P.	R	в. Д.	P.	
		UPPER CHENAB CANAL,							
		Occupien's Rate.							
frigstion Branch Notifica- tion No 0223 R I., dated Stb August 1912.	I	Cano and water-unts	9	0	0	4	8	0	Crop.
	II	Rico	7	8	0	8	12	0	Do.
	Ш	Orchords, gardens, tobacco, poppy, indigo, drugs, vegetable, meions and whoat	5	0	0	2	8 8	0	Orchards and gardens p half year; rest por crop
	īv	Cotton, fibres, dyes (other than ladigo), oileeosa and all rabl crops, except wheat, gram, masur, scuji, maina and turnips	4	. 0	0	2	3 0	0	Crop.
	v	All kbarif crops not otherwise specified	8	0	D	;	L 8	0	Do.
	VI	(a) Grom, masur, scujl, turnips and malua	h			İ.			
		(b) Crops grown on the "wadh" of a previous crop,	$\left\{\right\}_{2}$	4	0	\ ,	. 2	0	(a) Crop (b) and (c) nero.
, .		(c) Single natering before ploughing for rabl followed by a rabl crop to be applicable only to channels selected by the Local Government.							1()
	VII	Grass, village and District Board plantations-							
		For any number of waterings in the kherif	ι	4	0	٥	10	0	Half-year.
		For one watering in radi stoson	1	4	0	0	10	0	Do.
		For two or more waterings in rabi seeson)	8	0	1	. 4	0	Do
(rrigation Branch Notifica- tion No. 55 R. I., dated 13th January 1913.	VIII	(a) Single natering before ploughing not followed by a canol-irrigated crop in the some or the next harvest,	ļİ.	•	0				
		(b) Hemp (son) and Indigo which has been ploughed as green manure before the 11th September.		•	U	"		D	Acre,
		LOWER CHENAB CANAL.							
İ		Occupier's Rate.							
	1	Applicable to—							
		(a) all estates in the Gujranwala District which were established before the 1st January 1892;		,					
		(b) all estotes in the Ihong District which were established before 1st January 1892, except those which were transferred from the Montgomery to the Ihang District by Revenue and Agriculture Notification No. 370 of 4th May 1899; and such proprietary uells as are now or may hereafter be included within the boundaries of the Colony mauzas;							
		(c) all estates in the Guyera and Montgomery taheils of the Montgomery District which were established before 1st January 1891; and						4	n i
		(d) all estates in the Multan and Lahore Districts which were established before 1st April 1903.							

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—continued.

				RATE PE	B ACBE,		
Authority.	Class.	Noture of crops, .		Flow,	Lift.	Per	
		LOWER CHENAB CANAL—CONTINUED- OCCUPIER'S RATE—continued.	-	Rs, A. P.	Rs. A. P.		
rrigation Branch Notifi- cation No. 017 R. L.	Ĩ	Sugareaue, water-nuts	•••	800	4 4 0	Crop.	
dated 13th June 1908.	a)	Rico	•••	6 12 0	8 10 0	Do,	
	ш	Orchards, gardens, tobacco, poppy, indigo, dru vegetables, melous	ga.	580	800	Orchards and gardens pe	
	zv	Colton, fibres, dyes (other than indigo), oilses maire and all rabi crops (except gram a masur)		440	2 8 0	half-year; the rest ps crop. Crop.	
,	v	All klarif crops not otherwise specified, and grand masur	m	300	1 12 0	Do,	
rrigation Branch Notifi- cation No. 636 R. I., dated 12th Moy 1913.	17	Single watering before ploughlog not followed o canal-irrigated crop In the same or ne harvest	by 	1 12 0	1 2 0	Each watering.	
		Also cops grown on the "wadh" of a previous crep	•••			Crop.	
,	V11	Singlo watering before ploughing for rahi folle ed hy a rahi crop, to be opplicable only chaonels selected by the Local Government	tb	3 4 0	1 6 0	Acre.	
rrigation Branch Notifi- eation No. 0141 R. I., dated 12th October 1903,	VIII	Grass — For any number of waterings in the kharif sea For non watering in the rabi season For two or more waterings in the rabi season	•••	140	010 0	· ·	
		Applicable to estates other than those referred in Notification No. 017 R. I., doted 19th July 1908, above.					
trigation Branch Notifi- cation No. 32 I., dated 6th January 1892.	I	Sugnreade	•••	7 8 0	3 12 0	Crop.	
orn sandary zooza	II	Rice	•••	6 4 0	3,20	Do.	
	III	Orchards, gardens, tobacco, ludigo, vegetab poppy, dhanie, zira, sanut, melous	les,	800	280	Orchards and gardens p half-year; the rest p crop.	
	IV	Cotton, fibres, dyes (other than indigo), olises mains and all rabi crops (except gram a masur)			1 14 0	Crop.	
	v	All kharif crops not otherwise specified, and ground masur	nm 		1 4 0	Do.	
Irrigation Branch Notifi- cation No 636 R. I., dated 12th May 1913.		Single natering before ploughing not followed a canal-irrigated crop in the same or r harvest		11	0 10 0	Bach watering.	
	VII	Also crops grown on the "wadh" of a preverop	ious 		,	Crop.	
irrigation Branch Notifi- cations No. 0141 R. I., dated 12th October 1963,	VIII	District Board plantations in the Colony-				Half-year-	
and No. 313 R. I., doted 19th December 1905, and No. 701 R. I., dated 11th		For any number of waterings in the kharif set For one watering in the rabi season	500	1	١.		
December 1907.		For two or more waterings in the rabi season			1 .		

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—CONTINUED.

F						Bate pi	ER ACRE.	
Authority.	Class,		Note	ara of crops	ı .	Flow.	Lift.	Per
		Applicable	Ocourien's	RATE—co	—coxtinued. neluded. les selected by the	Rs. A. P.	Rs. A. P.	-
		Divisiuo.	District,	Settlement sersement circle.	Nos of Chals and Branch.			,
		Upper	Gajranwala	Gugem Branch L	537, 538 and 529, Gugers Brauch			
		Lower Cogera,	Lyallyur	Dato	71 and rard of 75 and 164, Queera Branch			
		Lyzilyar {	Lyallput.	Jhane Branch I	in- and half of 23 Jhang Branch			
	•	{	Jhang	Ditin	129, 134, 197, 141, 148, 147, 173, 188, 389 and 387, Jhang Branch			
			Lyallpur.	Jhang Branch II.	324, 341, 345 760 and 306, Jhang Rmach.	•		
	•		Jheng	Ditta .	179, 171, 178, 178, 178, 197, 197, 173, 279, 279, 215, 216, 217, 227, 271, 273, 274, 277, 271, 273, 274, 277, 277, 277, 277, 277, 277, 277			
į		Jhang .	Lyallpur	Jhang Rench III.	307, 309, 309, 401, 402, 410, 400, 410, 411, 412, 418 and 419, Jhang Brinch.			
			Zoedl	Ditto	449, 469, 440, 417, 419, 449, 450, 451, and 463, Jhang			
rrigation Branch Notifi- cation No. 0275 R. I.,		Inwor Gogera.	Lyallyar	Gogers Branch I.	Branch. 318, 207 and 249, Gogers Branch.			
dated 26th August 1912		Jhaog	Ditto ***	Jhang Branch III.	4:1, 371, 314, 947, 379, 499 and 420, Jhong Branch.		5	
		Ditto	Jhang	Jhang Branch II.	170. Jhang Branch.			
Irrigation Branch Notifi- cation No. 90 R. I., doted		Láwer Gugera,	Lyallput	Gugera . Branch . II.	204, 255 327 328, 329, 310 and 359, Gugora Branch,			
22nd January 1913.		Burala	Ditto	Dillo	367, f01, f02, 603, 505, f06, 513, 518 and 516, Gugera			
rrigation Brouch Notifi- cotion No. 0301 R. I.,		Khanki	Golfsansla	944	Branch. 11, 122° und 255, Bakh Branch.			
dated 21st Soptember 1914.		Upper Gugara.	Dilta		12, 13, 23, 30, 31, 34 and 40, Rath Branch.			
• ,		Dillo	Lyallpar		67, 61, 107 and 107, Hakh Branch.			
		Lyallpur	Ditio .		165, 211, 217, 235, 250 and 261, Rakb Branch.			
erigation Branch Noilfi- cation No. 016 R. 1., dated 1st June 1915.		Jhang	Jiang	e ed 8	405, 475, 478, 479, 490, 481, 494, 480, 400, 493, 499, 500, 163, 594 and 566, Jiang Branch,		6	7
		Borala	Lyallpur.	***	157, 558, 591, 585, 507, 617, 019, 619, 621, 622 and 623, Burnia Branch.			
		Lower Gugara,	Diito	pa .	321, Gurara Branch, Lower,		 	
		Upper Gogera.	Ditto		Rranch, Upper			
rigation Branch Notifi- cation No. 112 R. I., dated 30th January 1912	IV	Cotton, fibranizo, a mosur.	rea, dyes, o	other than	Indigo, ollseeds, except gram and	300	1 12 0	Crop.
	v	Ali kharif and masn		therwise sp	ocified and grom	2 0 0	1 4 0	Do.

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—CONTINUED.

			RATE PE	IR AORE.	
Authority.	Cluss.	Naturo of crops.	Flow,	Lift.	Per
	,		Rs. A. P.	Rs. A. P.	
		LOWER CHENAB CANAL-CONCLUDED.			
		Owner's Rate.			
Irrigation Branch Notifi- eatton No. (20 R. I., dated 13th June 1903.		Rule for the imposition of an Owner's Rate upon the owners of lands irrigated from the Lower Chenas Conal. Rate.			
		The Owner's Rate shalt be at the rate of one rupes per sere per crap irrigated, provided that no Owner's Rate shall be lovied on ony of the estates named below—			
		(a) Estotes in the Guffonwala District which were establised before the 1st January 1892,			
		(8) Estates in the Jhang District which were established before the Ist January 1892, except these which were transferred from the Montgomery to the Jhang District by Revenue and Agriculture Notification No. 270 of 4th May 1899; and such preprietary welts	ā	•	
		as ere now or may hereafter be included within the boundaries of the Colony mouzas.			
	•	(c) Estates in the Angera and Montgomery tabulis of the Montgomery District which were established before the 1st January 1894.			
		(d) Atlestates in the Muttan and Lahoro Dist- ricts which were established before the 1st April 1993.		٠,	
		LOWER JHELUM CANAL. Occurren's Rate.			
Irrigation Branch Notifi-	1	Sugarcane, water-unts	10 0 0	800	Crop.
doted 25th May 1902.	11	Rico	640	8 2 0	Do.
	111	drags, peppy and melons	500	280	Orchards and gardens p holf-year; the rest p
	IA	Cotton, fibres, dyes (other than Indigo), oitseeds, maire and all rabi crops except gram and master	312 0	1 14 0	crop.
	v	All other kharif crops, gram and masns, and all crops grown for fodder	2 8 0	140	Do.
rigation Branch Notifica- tion No. 632 Il. I., dated 12th May 1913.	VI	Single watering before plonghing, not followed by a canal-irrigated crop in the same or next harrest			Each watering,
,		Crops grown on the "wadh" or moleture of a previous crop.	1 4 0	0 70 0.	Crop.
	VII	Single watering, before ploughing for rablifollowed by a rabi crop, to be applicable only to channels selected by the Local Government	280	· · · · · · · · · · · · · · · · · · ·	Crop.
rigation Branch Notifi- cations No. 0121 R. I.,		Grass, viitage plantations in Colony vittages and District Board plantations in the Colony		} ·	
dated 21st September 1943, No. 810 R., I., dated 19th December 1905, and No. 695 R. I.,		For any number of waterings in the kharif	140	0 10 0	Half-yesr.
doted 11th December 1907-		For one watering in the robi season.	1 4 0	0 10 0	Ditto.
		For two or more waterings in the rabi session	280	1 4 0	Ditto.

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1916-16—continued.

		•	RATE I	ns Acre.	,	
Authority.	Class.	Nature of crops,	Flow.	Lift.	Per	
		LOWER JRELUM CANAL—CONCLUDID, OCCUPIER'S RATH—concluded.	Rs. A. P.	Rs. A. P.		
		Applicable to— (1) All oillages or portions of villages in the Bhera Taheil irrigated from the Rhadir Feeder or Khodir Distri- butary.	1			
		(2) All villages in the Shahpur Tahsil, except Sher Muhammaduals and Wegowal and except all villages or portions of villages irrigated from the Sahiwal Feeder including the Sahiwal Distributary and Gondal Distributary.				
		(8) The following villages in the Sargodha Tahril: Northern Branch Chaks—				
		Nos. F9, 93, 94, 95, 103, 104, 105, 108, 110, 112, 115 to 174 inclusive.				
		Southern Branch Chaks Nos. 60, 61, 63, 181, 183, 184, 185, 187 to 141 inclusive and Chak Jodh on the Rhadir Distributory.				
rrigation Brauch Notifi- cations No. 403 R.I., dated 20th March 1613, and No. 438 R. I., dated	1		780	9 12 0	Стор,	
3rd April 1912.	II	Rico	400	200	Do.	
	in	Orchards, gardens, indigo, vegetables, drogs and melons ,	500	280	Orchards and gardens po half-year; the rest per crop.	
j	IV	Wheat	8 4 0	1 10 0	Crop,	
}	v	Cotton and oilseads	300	180	Do.	
	VI.	Tibros (other then cotton), dyos (other than indigo), maire and all rabl crops other than wheat, gram and masor	280	1 4 0	Do,	
	AII	All other kharif erops, gram, mater and all crops grown for foddor (including toroips)	300	100	Do.	
raigation Bronch Notifica- tion No. 632 R. I., dated 12th May 1913.	VIII	Single watering before ploughing not followed by n canal-irrigated crop in the same or next harvest	1 4 0	0 10 0	Bach watering:	
	íx	Crops grown on "wadh" or moisture of a pro- vious crop	, , ,	1 4 5	Crop:	
	x	Grass, village plantations in Colony villages and District Board plantations in the colony—	280	140	Crop,	
		For any unmber of waterings in the kharif	140	0 10 0	Half-year,	
		For one watering lu the rabi scason	1 4 0	0 10 0	. Do.	
Ì		For two or more waterings in the rabi	2 8 0	140	Do.	

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—continued.

			RATE P	IR ACRE.	t
Authority.	Class,	Nature of crops.	Flow.	Lift.	, Per 📜
			Rs. A. P.	P. 1 P.	, ,
		LOWER SOHAG AND PARA CANALS	Rs. A. P.	Re, A, P.	i
-		Occuping's Bate.		1	
		OCCUPINES DATE		,	
rigation Branch Notifi- cation No. 423 I., dated	Į	Rice, gardens and pepper	8 4 0	1 10 0	Acre.
7th March 1698.	11	Cotton, sngarcane, melons, til and hemp	2 4 0	1 2 0	Do.
	liI	All other kharif crops	1 4 0	0 10.0	Do.
,	IV	All mainred rabi crops, planiations and vego- tables.	100	080	Do.
	v	Failed rabl crops and grasses	080	0 4 0	Do.
		UPPER SUTLEJ INUNDATION CANALS.		1	•
	ł	MONIGONERY DISTRICT.		í.	
		Occupier's Rale.] 	
rigation Branch Notifi- cation No. 422 I., dated	1	Rice, gardens and pepper	3 4 0	1 10 0	Acre,
7th March 1898.	11	Cotton, engareane, molons, til and hemp	2 4 0	120	Do.
	111	All other kharif crops	1 4 0	0 10 0	Do.
	ıv	All matured ribi crops, plantations and rego-	100	080	Do.
	v	Failed rabi crops and graves	0 8 0	0 4 0	Do.
1		LANGRE DISTRICT.			
		Occupier's Rate,			
Irrigation Branch Notifi-	1	Rice, gardens and pepper	8 4 0	1 10 0	Acre.
cation No. 1506 I, dated 18th April 1900.	11	Cotton, sugarcane, melons, til and hemp	2 4 0	120	Do.
	111	All other klarif erops	1 4 0	0 10 0	Do.
	ıv	All matured rabi crops, plantations and roge-tables.	100	080	Do.
	۲	Failed rabi crops and gration	080	0 4 0	Do.
	1	SIDIINAI CANALS.			,
}.	1	WATER-BATES.	Field 5	er acre.	
	ĺ	Kabirwala and Mullan tabells.	Rs.	A. P.	
mish Civil (Revenue) Dopartment letter No. 269, daled 11th Decem-	1	Bice, fruits and regetables, pepper, cotion, til, sugarcane, wheat and tobacco	1 7	5 0	
ber 1899.	11	Other kbarif crops	2 (8 0	
}	ш	Other rabi crops	2 :	2 0	
		Norn.—"Lift" rates to be half the "flow" rates.	. 		
,	İ	LOWER SUTLEJ INUNDATION CANALS.			
1		Occuping's Rate.		1	
		Mailei Canal and Branches; Muhammadwah Sardarvah and Branches; Bahawalwah Lodhran and Branches.			
rigation Branch Notifica-	1	Rice, gardens and pepper	240	111 0	Acro of matured crop
tion No. 53 R. I., doted 14th February	11	Cotton, sugarcane and til	1 13 0	1 5 0	Dilto.
1903.		Other khorif crops	180	1 2 0	Ditto,
.	17	Rabi crops	0.14.0	0 10 0	Ditto.
		Norn.—Irrigation on grass lands may be assessed at helf rabl rates at the discretion of the Deputy Commissioner.	1	'	

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—CONTINUED.

					RATI	TF.	R ACRE		
Asthority.	Class.	Nature of ero	Nature of crop-				Lift		Par -
		CHENAB INUNDATIO			Rs. A	77.	Rs. A.	P.	
		Gajjuhatta, Sikandarahad Bilochancah C	Silandarıcah	and					
rrigation Branch Natification No. 2136 I., dated 2th November 1599.	١.	Rice, gardens and pepper	•••		2 4	0	1 1)	a	Acre of matured crop.
Sil Volemet 1999:	11	Cotton, sugarcane and til	•••		1 12	0	1 5	0	Ditto.
	111	Other kharif crops	•••		1 8	0	1 2	0	Ditto.
	ıv	Rabi crops	•	•••	0 14	0	0 10	0	Ditto
		Note,—Irrigation on grass l at balf rahi rates at the disc Commissioner.	ands may be as retion of the D	chuja cesteg			<u> </u>		
		Mattithal, Daurana Lar Muhammad C	igana and Wai	ß,			\ 		
Irrigation Branch Notifi-	1	Rice, garders and popper			2 4	0	1 11	. 0	Acre of matured crop
cation No. 01622 I., dated 25th Soptember 1900.	п		•••		1 12	0	11	6 0	Ditto.
	111		•••	. ,.	1 8	O	1 :	2 0	Ditto.
	IV	Rabi erops	***	•••	0 14	. 0	0 10	0	Ditto.
		Norr.—Irrigation on grass at half radi rates at the dis	lands may he a cretion of the I	ssessed Seputy					
	1	HAJIWAH C.	anal.	4,					
Irrigation Branch Notifi- cation No. 250 R. I., dated 15th November 1906.		In exercise of the power 20 (1) of the Punjab Min (Punjab Act III of 190 Liuntenant-Gavernor is p for all irrigation from the following rates shall be les matured, namely:—	or Canals Act 5), His Hono deased to dire Hajiwah Car	t, 1905 nr tho ct that nal the					
		WATER-BA	TES.						
	1	Rice, gardens and pepper			2	4	1:	1 (o
	1	Cotton, sugarcane and til	-		111	2 (1	5 (0
	111		***		1	8 (1	2 (
	17		, 41	•••	0 1	4 (0 0	0 0	
		Provided that on all irrigate grant of land made in the Gbulam Kadir Khan, of l right in which is or m rested—	year 1880 to t	he late riclary					
		(a) in the same of lines said Ghulam I	il dereendan's Indir Khan; o						
			ral Khan, the r	ephens	1				
•		the rate per sere actually n kharif or rabi, shall be lin rates, namely—							
			Rs. A. P.				1		0
	ĺ	Flow	. 0 12 0 pc	r acre.			1		
	1	Lift			1		.1		1

STATEMENT SHOWING OCCUPIER, RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—CONTINUED.

,						Pat	E P	ER YO) RE	_	•
Authority.	Class,	. 20	atare of crop	94.	,	Flor	7.	í	ift.		Per
· · · ·		HAJIWAH	CANAL—co	PCPADED'	·	P. A.	P.	Ra.	<u>.</u> Л.	<u> —</u> Р.	<u> </u>
		WATER	RATES—con	ncluded.							,
Irrigation Branch Notifi- cotion No. 269 R.I., dated 15th Novomber 1905.	***	In exercise of the partial of the Punjal Act III of 1905 pleased to direct be levied on the and Montgomer, water for put riz.:—	Minor Can), the Lien that the fol Hajlwah Can districts,	inls Act (tenant-Gove loning rate inl, in the for the sn	Punjab ernor i s shall Multan pply of		Rate				,
	•	Purpor	for which su	pplied.	i	Ra	Α.	P.			
·		Brick-making and	pieć wall ha	ilding	***	0	3	0			100 cubio fect.
		Laying concrete of	r hrick or st	one masonr	·	o	2	0			Ditto.
		Metalling roads		•••	•••	10		0			Nile,
		Water supplied in	bnlk		•••	1	-	0			2,500 cable feet.
		1			***	c 2	-	G			
Irrigation Branch Notifica- tion No. 0235 R. I., dated 19th September 1936.	•••	Watering road-ide	or proupe t	tees	f see.	, 5		0			Canal mile of 5,000 fee for kharif crop. Canal mile of 5,000 fee for rabi crop.
Irrigation Beanch Notifica- tion No. 106 R. I., dated 30th January 1912.	144	Proviso.—Excep Stations, Canton charge shall be manufacture of burnt in a trin laken from a we expended from a viralls are for be having a stare in shall be levied for project authority used for doresticattle.	nerta and , made for w bricks or for pisi aler-course canal, and wildings own the trates-co woter suppl to villoge	Municipali rater used; rater used; rate such i if such i if such i ned by cult ourse, and ited in bull tank is excli	tics no for the quently ding, if aufully ricks or tivators no rate , under lusicely						
	į	INDUS IN	INDATION	CANALS.					<u>.</u>		
		Occi	rirns' Raz	TS.	. [RAT	r r	PR A	CRE		
					•	On th Kadri Canal	3	q	n al		
••		•									
		0.00				R. A.	P.	Pa,	λ.	P.	
rrigation Branch Notifi- cation No. 0376 R. l.,	•••	Kharif flow	•••	•••	[1 \$	ó	1	0	0	
dated 2nd October 1912.	!	" lift	••	•••	100	0 12	0	0	8	0	
		Rabi flow	4**	•••	•••	0 12	0	0	8	0	
		" lift	•••	•••	***	0 6	0	0	4	0	
		Special rote for ri		em Ghazi	Khan			1	4	0	
		Provided that all Massavah Canal ond Brt Ladha el occupiers' rates from the eaid oc Mari Pachadi a subject to only occupier's rate: Provided also that canal and torre teater mixed and case without the rates shall not be irrigation. Whe flood waters are ced and distribute the above-mention the above-mention.	lying in the all be entire on that at interest that at the large of the when irrigate of the charged in the charged in the charged in the charged in the charged of the cha	rillages to ly exempt if it lands in the rillibarmiyani se obore-ne gation is a land rive caral, occ respect of torrent of the canal ard the caual	of Rori from all trigated ages of hall be ntioned done by er flood in a y enpises of such or siver manag- supply.						,

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16,—CONTINUED.

			•			·F	ATI	ri	A SE	OBI	i.	,.
Authority.	Class.	No	inre of crop	5,		, . F	low		נ	Lift	•	Per ·
,		INDUS INUNDAT	ION CAN	ALS—cond	LUDED.			R	. A.	P.		
		Occupiens	'RATES-C	oncluded.								
Irrigation Branch Notifica- tion No. 0849 R. I., dated 4th October 1915.	***	In exercise of the peof the Northern in VIII of 1873, on the Lieutenaut-G pleased to direct the ing Schedule of Ration from the Desupply Channel, Cauli of the Indus for the supply of the interpretation:—	wers confer dia Canal a mended by . overnor of o publicatio ies to lo ch cera Ghazi taking out Inoudation f water fo	red by second Draina, Act IV of the Punn of the arged for Khan High from the Canals Sec	ge Act, 1914, jab is follow- irriga- irocol Monka	•						
		All erops		***	•••			G	0 0)		Aero,
		Miscellancous ra	ler for purp erigalson.	oses other	han							
		Brick-making and p	is nall bu	lding	<i>,,</i> ,	İ		0	8 0)		100 cubic feet.
		Laying concrete an	d brirk or •	tone masan	ty			0	2 ()		Ditto.
		Metalling roads						10	0 0)		Mil
		Water supplied in b	alL	***				1	0 (;		2,500 cubic feet.
		Watering road-ido o	r avenue tr	res	}	i		ជ	0 ()		Canal mile of 5,000 feet per crop.
		SHAHPUR (IM	Purial) i Canals.	NUNDAT	ION						,	
		Occur	EB-' RATI	٠٠,								
		For the Canals	in Shakpu lahsils,	r and Bher	a ·	R«.	A.	P. 1	Rq	Λ.	P.	
Irrigation Branch Notifi-		Rice		***		3	8	ļ	1			Acre.
eation No. 1370 I., dated 19th November 1891.		All other crops	•••	•••		2	8	0	1	4	0	Do.
		Grass lauds	•••		,.,	1	4	0	1	4	0	Do.
		SHAHPUR (PRO)	'inciai) 'anals.	INUNDAT	NOI	:						
}		Occu	riers' Ra	168,								
			Raniwah.									1
Settlement Report, 1887— 1894, paragraph 100.	***	Rico	•••	•••		8	8	0	1	4	0	Acre.
		All other erops	•••			3	8	0	1	4	0	Do.
		Grass Innds	•••	***		1	4	٥	1	4	0	Do.
	}	C	orby wak.									
1		All crops	•••	••		1	8	0	0	12	0	Acr.
		Grass lands	•••	***		0	2	0	0	1	0	n.
		MUZAFFARGA	rii inud Unnals.	NOITAGE								
	ı	Осога	irns' llat	E4.								
	•	Che	nab Canals	•	ļ			 -		,		
reigntion Branch Notifica-	T	Rice, gardens and pe	pper			1	ぱん	0	1	2	0	Acre of matured crop.
tion No. 052 R. I., dated 7th July 1903	II	Cotton, sugareane m			,	1	8	0	0	12	0	Ditto.
100 P. S. A. 2. 2. 16	ш	Other kharlf erops	***	277		1	2	إ	0	, 9	0	Ditto.
/ .	ıv	Rabi crops	,,,	,		0	12	0	0	6	0	Ditto.
rrigation Brauch Notifica-	v	Grass lands	,	***	***	0	6	0	0	3	0	Ditto.
tion No. 431 R. I., dated 4th May 1907.		Norn.—The rate for at the discretion o		to be a	ressed			,				

STATEMENT SHOWING OCCUPIER'S RATE AND OWNER'S RATE IN FORCE ON THE CANALS IN THE PUNJAB DURING THE YEAR 1915-16—continued.

						RATI	e Pr	r aonh	•	
Anthority.	Class.	Nat	are of crops	.		Flow		Lift	•	Per
	<u> </u>	MUZAPPADA	ADR INT			Rs. A.	<u>P.</u>	Rs. A.	P.	-
•		, MUZAFFARG CANAL	S—corclu	DED.		-	ŀ	•		
		Occurrens'	Rates—co	neluded.				-		
		Indi	is Canals.			20		16		
Irrigation Bronch Notifi- cation No. 052 R. I.,	1	Rico, gardens and per	pper	***	•••	1. 8-	0	0 13	0	Acre of matured crop.
doted 7th July 1903 xxx	11	Cotton, sugarcane an	d indigo	***	*	10	0	0 8	0	Ditto.
المناسبة المناسبة	111	Other kharif crops	•••	•••	•••	0 12	0	0· 6	0	Ditto.
•	IV	Rabi crops	•••	•••	***	08	٥	0 4	0	Ditto.
Irrigation Branch Notifi- cotion No. 484 R. I.,	v	Grass Innds	***	•••	•••	0 4	0	0 2	0	Ditto.
doted 4th Moy 1907.		Norm.—The rote for at the discretion of t								
		GHAGGAR INI (B)	INDATIO: RITISH).	r Canals.						•
		Occur	iers' Rati	es.		•	ı			•
Irrigation Branch Notifi- cation No. 348 R. I.,	1	Sugarcane	•••	***	•••	8 8	٥	4 4	0	Acre matured per crop,
dated 27th November	11	Rice and water-nuts	***	•••		6 0	٥	3 0	0	Ditto,
1903.	, III	All other crops	•••	•••		2 8	0	1 4	0	Ditto,
,		Proviso.—Provided shall be levied in the lime being ass revenue.	respect o	f any lan	d for					
		DELHI AND (URGAON	works.		Rat	le po	r aere.		
		Occur	tens' Rate	s* .			-	. P.		
Irrigation Branch Notifi-	*	Atl crops	•••	•••				4!	i	Acre. '
cation No. 653 I., dated 6th April 1893.		Grass des	141			0		31		Dr.
-	!	Note,-This schedule lished in Natificati December 1873, which	on No. 52	33 I., date:	pub. I SIA			••		
•		SCHEDULE OF R. WATER FOR THAN I		SOTHER	OF		•			
,	••	WESTERY JUMMA CAN CANAL, SIRMIND CAI LOWER JURELYM CANAL, LOWER BA STYLES CANALS, I CANALS, SIDMINAI LOWER STYLES AND CANALS, MUZAPFAR CANALS,	CAVAL, U EI POAR LOWFE SO AND STER CHEVAR	ECHINAB CAUPER CHI UPPER CHI CANAL, UI HAG AND I IDIARY CAN CANALE, II	enab PPPR Ara Alb, SDUS					
Irrigation Branch Notifi-	•••	Brick-making and pie	will build	ling			0 8	0		100 cubic feet.
dated 5th Aprit 1898, 276 R. I., dated 16th December 1902, 540		Laying concrete and l	brick or sto	не шазоогу		(D 9	0		Ditto.
R I., doted 22nd April 1913, and 0105 R. I., dated 25th Juno 1913.		Metalling roods	•••	•		10	0 0	0		Mile.
		Water supplied in bul	k	•••		1	1 0	0		2,500 cubic feet.
		977 4 4				: ۲	2 8	0	1	Canal mite of 5,000 fee
Irrigation Branch Notifi- cation No. 325 R. I., dated 29th October 1906.	,,,	Watering roadside or	ovenne trees	9		} ;	5 (, 0		for kharif crop. Canal mile of 5,000 fcs for rabi crop.
irrigation Branch Notifi- oation No 0227 R. I., dated 28th September 1911.	•••	Proviso—Execpt with Stations, Cantonna no charge will be monanufacture of britin a kiln or for from a water-course of from a canal and if buildings owned by a the water-course.	nts and de for wate cks not sub pist wall be or tank lav such bricks	Municipal or used for becquently building, if to fully supper for walls are	ities the urnt uken olied e for			•		· .

PUNJAB PROVINCE.

IRRIGATION BRANCH

ADMINISTRATIVE ACCOUNTS

FOR THE YEAR

1915-16.

No. Irr. 15-4-	Dated	1916
Copy forwarded to	•	

Accountant-General, Punjab.

Mulid-PAm Pross, Laboro.

TABLE OF CONTENTS.

MAJOR WORKS.

No. 1. General Abstract of Financial Results;

Canals in operation.

						Page:
Western Junea Canal-						
No. 2 Capital account	.1.	*34	110	119	***	6
" 3 Revonue account	***	***	***	•••	•••	8 10
" 4 Interest account		•••	4.0	•••	***	10
" a Indirect charges account	it	*** - * * ***** * * * * * * * * * * * * * *	antinund se	imakan	**1	11
,, 6 Statement comparing ch	argos to d	luto with ev	nctioned esi	umates	444	11
UPPER BARI DOAN CANAL-						12
No. 2 Capital account	***	•••	•••	•••	949	14
3 Revenue account	***	•••	•••	•••	•••	15
, & laterest account , & Indirect charges account	•••		•••	•••	•••	15
n 6 Statement comparing ch	arces to d				*1*	15
SIEMIND CANAL-						
No. 2 Capital account	•••	***			***	16
, 3 Revenue account	•4•	•••	•••	•••	144	18
, 4 laterest account		***	***		104	20
n & Indirect charges accoun	t	4-4			410	20
, 6 Statement comparing ch	arges to d	into with an	nctioned est	imates	***	21
LOWER OHENAB CANAL-						0.)
No. 2 Capital account	110	•••	•••	**1	1.4	22 24
" 3 Revenno account	***	***	***	•••	**L	25
" 4 Interest account	. ***	***	***	•••	***	25
, 5 Indirect charges accoun		lata mitti ga	nationed as	limatas	•••	25
, 6 Statement comparing ch	mrges to c	into with an	Dipter	IIIIII	***	
No. 2 Capital account	CDING TION	LR DURAG A	NU TANA	•••		26
D Dames and the same to	***	•••	***	•••	100	27
" 1 7 Assault of thomas		•••	•••	•••	444 4	28
5 Indirect charges account		•••	•••	•••	***	28
" 6 Statemout comparing ch	arces to d	ate with sai			1.1	28
BIDRIAI CANAL-	6					
No. 2 Capital account	***	•••	***	**1	***	29
3 Revenue account	411	***	***	•••	110	31
. 4 Interest account	•••	***		***	•••	32
, 5 Inducet charges account	t	•••	. ***	. •••	***	32
, 6 Statement comparing ch	arges to d	lato with as	nctioned ca	limates	***	32
LOWER JULIUM CANAL—						
No. 2 Capitul account	***	•••	***	***	100	33
, 3 Revenue account	•**	•••	***	***	***	35 36
, 4 Interest account	, ,,,	•••	•••	•••	***	36
, b Indirect charges accoun	ال ووو الا دو الاوران		national as	limatos	•••	36
, 6 Statement comparing ch	urges to o	into with th	derioned es	timures.	100	30
No. 2 Capital account						37
2 Depume consuct	•••		•••	•••	***	39
Tukunask sussank	***	•••	***	•••	•••	40
" & Indinast alsonger neares		•••	***	•••	544	40
6 Statement commence or als	arces to d				***	40
n o stroment comfuture cu	620 11 1					
Can	als unde	r construc	tion.	•		
						
Upper Chenab Canal—						_
No. 2 Capital account		***		***	***	41
" I Revenue account	***	•••	***	448	***	48
" 4 Interest account	***	•1•	***	•••	***	44
" 5 Indirect charges account		***	***		***	41
, 6 Statement comparing of	larges to d	lato with sa	nctioned os	tirantos	•••	44
Lower Bari Doan Canal—						45
No 2 Capital account		***	***	•••	***	
, 3 Royonno account	141	***	***	***	•••	47 48
, 4 Interest account	. ***	***	**1	**1	•••	48
5 Indirect charges account		lata mith da	national sa	timates	***	48
6 Statement comparing the	argus to c	ince with 20	menoned by	wantes	***	10
						49
No. 2 Capital account 3 Royonno Account	•••	•••	***	***	•••	50
4 Interest account	•••	•••	***	•••	•••	51
5 Inditect charges account	t	•••	•••	***	***	51
6 Statement companies of				limatas	•••	51

MINOR WORKS AND NAVIGATION.

No. 1. General Adstract of Financial Results.

(1). Ordinary works of Irrigation and Navigation.

Canals in operation.

Imperial.

(a). Works for which Canal and	Rev	onuo accounts a	re kept			Page.
SHAHPUR CANALE-						_
No. 2. Capital account	•••	*** 1	•••	***	***	52
,, 3 Revenue account	• • • •	•••	•••	***		53
. 5 Indirect charges account	•••	••	•••	•••	•••	54
" 6 Statoment comparing char	ges t	date with san	ctioned es	timates	939 i	54
GHAGGAR CANALS-	u				-	
No. 2 Capital account		***	***	***		55
, 3 Revenue account	110	***		•••	841	57
5 Indirect charges account		•••	•••	•••	400	59
" 6 Statement comparing char	mnz f		ctioned es		***	50
(b). Works for which only Revent	no nec	ounts are kept.			***	
LOWER SUTLES INUNDATION CANALS INCLU	เกาะก	HAINTAN GANA	LS PROJEC	T		
No. 3 Revenue account			404	•••	•••	60
, 5 Indirect charges account	•••	•••	***	- ***	•••	61
Lower Sutley Inundation Canals inch	****************			•••	•••	٠,
No. 3 Revenue account	ODING					62
5 Indirect charges account	•••	***	***	•••	***	63
CHENAR INUNDATION CANALS-	•••	* ***	***	***	****	uq
No. 3 Revenue account						G£
	*14	•••	•••	•••	•••	Gã
, 5 Indirect charges account	***	***	***	•••	***	Qa
MUZAFFAUGARII INUNDATION CANALS-					•	
No. 3 Revenue account	***	***	***	•••	. 500	66
" 5 Indirect charges account.		***	***	•••	***	G7
	Pr	ovincial.				
(b). Works for which only Rever	ne a	ocounts are kep	t.			
						69
No. 3 Revenue account	***	***	***	104	***	63
5 Indirect charges account	411	***	***	>+4	***	បដូ
RAVI INUNDATION CANALS-						PA.
No. 3 Revenue account	***	***	***	***	***	70
E Indopenial angues a second						

ERRATA TO ADMINISTRATIVE ACCOUNTS, PUNJAB PROVINCE, FOR 1915-16.

Page No.	Line.	Column.	For.	Read.
	Canals under construction.			
2	Lower Bari Doah Canal	2	2,10,69,940	2,13,69,940
3)	Ditto	4	2,23,28,402	2,20,28,402
"	Total Canals under construction	2	10,10,41,805	10,07,41,805
33	Ditto	·. 4	10,39,81,985	10,36,81,985
"	Grand Total Canals in operation and under construction.			
,,	Imperial	2	21,82,18,949	21,79,18,949
27	Ditto '	4	22,53,98,576	122,50,98,576
46	11 Establishment.			
10	Total	5	35,49,734	32,49,731
31	Grand Total	5	2,19,51,940	2,16,51,940
19	Net Total	5	2,16,60.940	2,13,69,940

SUBSTITUTE FOR FORM No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE OF THE LOWER BARI DOAB CANAL.—(Page 48.)

. /			Current SA	Inctions.		
Particulars.		Charges to date.	Am unt of Sanctioned Estimate.	Unspent Balance of Estimate.	Total charges to date against old and current sauctions.	Remarks.
Direct Charges-		Rg,	Rs.	Rs.	Rs.	1 No. 5 n Canal the 9th
Works		1,55,23,300	1,63,86,208	8,62,992	1,55,23,306	nelum relum
Establishment		27,30,133	32,40,734	5,19,601	27,50,133	of State's Despatch No. ced to Upper Jhelum Can o. 645 A. I., dated the 9
Tools and Plant	••	15,12,098	17,15,90	2,02,020	15,12,988	ofe's Upp A. J
Suspense Balances	•.•	9,62,469	3,00,000	- 6,62,469	9,62,469	of Str ed to . 645
Total	••	2,07,28,896	2,16,51,940	9,23,044	2,07,28,896	
Less Receipts on Capital Account.		61,932	2,82,000	2,20,068	61,932	sanctioned in Secre'ary of 17th February 1911. r Establishment transferred nt of India, P. W. D. No. C
Not Total		2,06,66,964	2,13,09,940	7,02,976	2,06,66,964	oned in Se February 1 blîshment India, P. V
Indirect Chargis—						ioned i Februa ablishm India,
Capitalized abatement Land Revenue.	of	43,750	1,47,500	1,03,750	43,750	e sancti le 17th ler Esta nent of
Leave and Pension Alle) W-	3,71,278	5,10,962	1,39,694	3,71,278	Fstimate sar dated the 17 000 under E Government 915.
Total	••	4,15,028	6,58,462	2,43,434	4,15,028	
GRAND TOTAL	••	2,10,81,092	2,20,28,402	9,46,410	2,10,81,992	Revised P. W., Rs. 3,00 as per June 1

ADMINISTRATIVE ACCOUNTS

No. 1.—General Abstract of Financial Results showing the Estimated Cost of Construction and the Interest on the Debt incurred in respect

,			MATED COS		CAPITAL	OUTLAY IN	CLUSIVE OF	Indirect
Name of Proje	ună.				Du	ring 1916.1	0,	Total to end of
Nume of Froje		Direct charges.	Indiroct charges,	Total.	Direct chargos.	Indirocb charges.	Total.	Direct charges
PRODUCTIVE W	ORKS.	Ť						
Canals in Operat	lion.	Rs.	Rs.	' Rs.	Rs.	Rs.	Rs,	Ŕs.
Imperial.								
Western Jumna Canal	4.	1,67,36,923	8,10, 045	1,75,46,068	/4,027	1,032	15,659	1,68,92,347
Upper Bari Doab Canal		2,07,47,601	7,31,604	2,14,70,385	3,39,685	9,267	3,40,152	2,11,39,402
Sirhind Canal		2,43,90,260	12,10, 541	2,50,08,802	63,970	174	04,144	2,43,45,111
Lower Chenab Canal		8,10,65,103	7,18,544	3,18,11,647	92,770	3,052	96,722	8,10,32,899
Upper Sutlei Inundation Ca	anibuloni elanı	10,96,822	1,00,502	17,07,414	11,324	278	11,000	17,17,361
Lower Scheg and Para, Sidhnai Canals		12,47,657	40,217	12,87,874	960	.,.	066	12,00,744
Lower Jholum Canal		1,83,95,782	5,68,206	1,89,63,988	13,673	. 027	14,300	1,55,70,611
Indus Inundation Canals		28,91,606	31,607	20,23,413	1,47,387	3,637	1,51,024	28,93,900
Total Imple	eille en	11,71,77,144	42,30,447	12,14,16,591	6,82,670	Į 8,967	7,01,037	11,45,68,048
Contribution. Western Jumpa Canal	•• ••	11,60,478		11,60,478	 58,854	•••	68,854	11,00,478 1,53,02,005
Sirhind Canal	444	1,43,99,535	***	1,43,90,535	00,002	• •	00,004	2,302,000
TOTAL CONTRIBUT	no	1,55,60,013	••	1,55,60,013	58,854	•• ,	58,854	1,51,62,483
TOTAL CANALS IN OPERATION	n Inperial	11,71,77,144	42,39,447	12,14,10,591	6,82,670	18,067	7,01,637	11,48,68,948
Do. ' (Contribution	1,55,60,013	014	1,55,60,013	58,854	••	58,854	1,54,62,483
Canals under constru Upper Chenab Canal	ction.	3,61,31,583	12,25,441	3,73,57,024	11,04,458	49,573	12,44,031	3,36,24,503
Lower Bari Doab Canal	•••	2,16,69,040	6,58,462	2,23,28,402	8,92,133	88,848	2,30,981	2,06,66,981
Upper Jhelum Canal	*** ***	4,32,40,282	10,56,277	4,42,06,550	18,91,961	48,779	10,43,740	4,15,81,296
Total Canals under cons	Koltovate	10,10,41,805	20,40,180	10,39,81,086	39,81,552	1,37,200	41,18,752	2,58,72,763
GRAND TOTAL CANALS IN OPERATION	Imperial	21,82,18,949	71,70,627	22,53,08,076	46,61,222	1,56,167	48,20,381	21,07,41,711
AND UNDER CONSTRUCTION.	C	1,55,60,013		1,55,60,013	58,854		58,851	1,54,62,483

⁽a)—The seeming excess over estimate is due to suspense balances (b)—Excludes recoveries made by Native States and credited (c)—Excludes share of Accounts Establishment commencing from (d)—Includes Rs. 2,417 on account of owners' rates on Irrigated (s)—lucludes Rs. 1,538 on account of owners' rates on Irrigated

Lahore:
The 1st September 1916.

FOR THE YEAR 1915-16.

Minor Works, the capital outlay thercon, the Revenue derived therefrom, the working expenses of 1915-16.

	DURING	1915-1	.6,				MAINTE 1915-16 INDIREC	NANCE INCLU	Nada And During Jaive of Ocs Nos.	INTE	RFST, D	EXCLUIPTY VE XI ENSE	4.LE	19 -16.	Įī	ncau	esul Ding Rest.	
		ed u ith Revenu	Land		Total.		ļ -	Ann	<u>. </u>	(sar-	e ii	Rate p	er cent.		rplus)	ture	Ra per	te cent.
•	Aetuni trans- netions of the year.	Adjustment on account of provious year.	Total.	Actual frans- factions of the year.	Adjustment on necount of previous year.	Tofal.	Direct charges.	Indirect charges.	Total.	Excess revenue plus).	Cxccrs expenditure (doffeit).	Of excess revo-	Of excess expend- ituo.	Simple Interest during	-	Excess oxpenditure (definite.)	Of excess revo-	Of excoss expend-
	Rs.	Rs.	Rs.	Ra.	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.		,
\	/5°+/) 15,107		15,07	92,201 17,549		92,201 17,5 <u>4</u> 0	i .	1			, 18,47a	18 20	4-91					
	15-17) 16 ,10 7		157/7 16 ₁ 107	1,00,741		1,09,741	82,003	5,00 5	88,900	39,314 20,941	18,473	3.22	••					
		••	ijij	1	·	1	4,701	••	4,701	•	4,763	:	1.66		_			
	, 9,11,338	٠	3,11,338	8,21,766		6,21,740	2,70,993	14,531	2,95,684	3,36,156								,
	2,61,100	••	2,64,100	4,71,625	**	4,71,625	1,65,512	7,041	1,72,553	2,00,072			•		,			
	3,70,284	••	3,70,284	0,16,213	••	6,46,213	3,40,985	17,892	3,57,977	2,88,236								
	9,15,812	••	9,45,812	17,39,578		17,39,578	7,76,590	30,524	8,16,114	0,23,464								
	G,457 888		0,457 885	36,359 1,270		3 6, 350 1, 270	35,297 2,090	2,966 203			4,694 1,113						ا سر	mer
	7,346	.:	, 7,316	37,629		37,629	40,387	2,040	43,836		5,707	• •	`	-			,	

W. ALDER,

OFFICE OF ADMINISTRATIVE ACCOUNTS

Western Jumna Canal

No. 2.—CAPITAL ACCOUNT FOR

				DII	RECT C	HAR	GES.				etion 3lst	closed
		Ix	PCRIAL.		Conti	IBUI	nor.	, T	отав.		chon Construction	gainst
E	EADS OF ACCOUNT.	Provious.	1915-16.	Total.	Provious.	1915-16.	Total.	Previous.	1015-16.	Total.	Co-t of construction as now calinated (Construction Lawrence on 3lst March 1806.)	Expenditure a
1.	I.—WORKS. HEAB WORKS— B.—Land C.—Works K.—Buildings O.—Miscollaneous P.—Maintenanco	4,10,440 30,025 13,530	Rs	Rs. 4,710 4,19,440 42,311 13,531 24,539	Ra		R. 5,326 	Rs. 4,719 4.21,769 39,023 13,539 21,839	Rs	Rs. 4,710 4,24,768 42,311 13,539 24,839		
	Total	6,02,451	2,388	£,04,239	5,328		E,325	5,07,770	2,358	b,10,16		
g. `	D.—Regulators E.—Falls and Woirs F.—Biver and Hill Torre Works. F.— (1)—Other Cross Drainage Works G.—Bridges H.—Escapes I.—Navigation Works J.—Mills K.—Buldings L.—Earth-work M.—Plantations O.—Miscellaneous	5 50,508 2,68,090 2,43,801 3,01,031 nt 2,719	105	50,808 2,58,712 2,44,056 3,61,476 2,73,617 8,25,608 3,40,112 13,97,906 53,117 6,69,922 19,01,067 19,032 54,286 1,58,861	42,000 1,05 11,13 61,27 43,41 20,86 3,83 45,17 1,08,60 3,60		4,686 22,239 25,671 42,098 1,051 41,137 51,270 43,111 29,861 3,932 46,177 1,96,661 4,650 3,760	2,50,319 2,69,502 4,03,039 3,800 2,51,751 6,77,078 3,93,903 14,17,566 58,000 7,01,400 20,98,03 23,680	452 165 467 	53,38 2,80,80 2,60,72 4,03,60 3,80 2,61,75 8,77,07 3,53,8(11,17,8(7,15,1(20,98,0, 23,6(5,0) 1,77,3(1 7 6 6 4 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	Тотаб	65,42,330	11,763	65,51,11:	5,73,79	5	5,33,70	70,76,12	11.78	70,97,0	08	
3.	A.—Proliminary Expens B.—Land C.—Works L.—Farth-work O.—Miscellaneous	65,05; 3,11,00; 11,97,719 14,03,25; 3,88,88; 54,02;	-79	65,055 3,11,018 11,97,719 14,05,255 3,88,889 54,92	0,60 1,30,72 1,65,61 29,85	E	12,073 6,954 1,30,025 1,68,615 29,326 12,68	3,18,016 13,15,61 15,70,86 4,18,23	5 -76 0	78,0 3,17,0 12,18,6 15,70,6 4,18,2 67,5	57 57 59	
٠	Total	34,12,02	79	34,12,815	3,58,4	03	3,58,40	37,71,32	7 -79	37,71,2	18	

ACCOUNTANT-GENERAL: FOR THE YEAR 1915-16. Project.

' AND TO END OF 1915-16.

				DIREC	г сни	RGES.	•			ion as (Con- i m ate March	а
HEADS OF ACCOUNT.	1	MPERIAL	•	Con	RIBUT	ON.		Torat.		fructic nated E s t i	a g a
	Previous.	1915-16	Total.	Provious.	1915-16.	Total.	Previous.	1915-16.	Total.	Cost of construction now estimated (struction E s t in closed on 31st M 1896).	Expenditure a g a i closed Estimates.
4. Drunage and Pro-	Ra	RsI	Rs.	R3.	Ra.	Ru.	Rs.	Rs.	Ra.	Rs.	Rs.
A.—Preliminary Ex-	20,391		20,301	1	•••	2	20,302		20,301		
ponses. B.—Land	50,225		59,221	***			59,225		59,221		
C.—Works	2,08,426		2,03,421		••		2,03,126	٠	2,08,425	,	
L.—Rorth-work	4,27,161		4,27,464	3,113		3,113	4,30,577		430577		
O.—Miscellancous	22,617		22,647				22,047		22,017		
TOTAL	7,35,003		7,39,063	3,114		3,111	7,41,177		7,41,177		
TOTAL L-WORKS	1,11,95,764	14,00:	1,12,09,560	010,00,0		P,00,61(1,20,06,409	14,092	1,21,10,500		
Ad2 expenditure on general works at end of 18d1 05.	19,01,123	111	19,21,123	••		••	19,24,123	••	10,24,123		
	1,31,10,401	14,092	1,31,33,987	0,00,610	••	0,00,040	1,40,20,531	14,092	1,40,31,623	1,40,07,806	1,40,65,919
ii.—establishment		ls.									
5. Direction (a)	6,03,865	683	0,09,551	43,545		43,545	6,52,413	693	0,53,000		
G. Executive	23,98,450	2,561	24,01,031	1,57,982	,**	7,57,58	25,66,832	2,581	25,58,013		
S. Special Scrver	1,31,782	••	1,31,782	6,066	***	6,006	1,37,848	••	1,37,848		
81. Special Field Sur-	85	••	88		••	•••	88		86		
VFY. Leave and Pension Al- Lowandes.	***	,,	••1	26,049	••	29,040	50, 049	,,,	29,010		
Total	31,39,168	3,261	31,42,452	2,30,542	•••	2,36,512	33,75,730	3,264	38,78,99		
ddd expenditure on general worls at end of 1961-66.	1,85,590		1,85,560				1,85,590	••	1,85,500		
TOTAL	33,24,778	3,264	33,28,012	2,36,512	<u></u> .	2,30,542	35,61,320	3,261	35,81,58	35,68,463	35,63,55
iii—toolb and plant)		İ		'
9. NAVIGATION PLANT	1,033	••	1,933	208		298	2,231	•••	2,23	1	
12. Miscellaneous	1,01,901	226	1,92,120	13,420		18,429	2,10,030	228	2,10,55		ŀ
13. Repairs and Cab. Blace.	23,073		23,073			r,041		 	29,01	.	
Total	2,17,507	226	2,18,010	23,768		23,788	2,41,575	228	2,41,80	2,42,005	2,41,770
IV.—SUSPENSE AC- COUNT.											
14. Stock	2,13,188		1		"	j "	2,13,168			1	
15. Stock Punchases	-10	171	ł	1 " ,)		10		1	1	
15r. Stock Sales	1,827		1 1		••		1,827		1	ŀ	
16. Miscellaneous Ad- Vances:	1,720					<u> </u>	1,729			}	
Total	2,10,725		2,13,708		•••	••	2,16,725	-2,057	2,13,768	·	
.l-	1,68,79,201	14,627			•••		1,80,40,151	14,627		1,70,08,454	
y.—LESS RECEIPTS ON CAPITAL AC- COUNT.	11,481	•••	11,481	472	•••	472	11,053	• • • ·	11,953	11,053	11,95
Ner Total	,68,07,720	14,027	1,69,82,317	11,60,478		11,00,478	1,80,28,198	14,627	1,60,42,823	1,78,96,501	1,78.69,29
APPORTIONMENT: APPORTIONMENT:			1,68,82,347				1,80,29,105				

⁽a). Share of accounts excluded under Imperial from 1912-13.

OFFICE OF ACCOUNTS FOR THE YEAR 1915-16.

Western Jumna Canal Project.

No. 3—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

;		IMPERIAL.		Cox	TRIBUTION			TOTAL.	
RECEITS.	Provious,	1915-16.	Total.	Provious.	1015-16.	Total	Provious.	1915-16.	Total,
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rr.
Occupiers' rates	••	20,47,351		••		•	••		
Owners' rates on irrigated land.	••		••		••		••		
Sales of water	••	16,651	••		212		••		
Supply of towns	••			•	••		••		
Receipts from Plantations.	••	21,784	•••		4 97	•			
Receipts from other Canal produce.	4.	634	••		14		••		
Water-power	••	6,263		1	327	1	••	,	
Navigation Receipts.	,,	52,284	••	.			••		
Rent of Buildings	N	6,750			320		**		
Fines		1,759		••	117	:	••		
Miscellaneous and other Recoipts.	••	23,514	••		233		••		1
· Total	9,12,34,018	27,77,663	0,70,11,581	31,208	1,706	33,004	0,42,65,316	27,70,200	9,70,41,585
Share of Land Re- venue collected in the Civil De- partment.	1,85,69,801	2,30,696	1,87,99,500	, •	27*	***	1,85,69,804	2,30,000	1,87,99,500
Interest on sale-pre, ceeds of waste lands benefited.	1,101	20 i	1,205	.,.	•,•	***	1,101	113	1,395
Total	1,85,69,905	2,30,990	1,88,00,803		340	,,,	1,85,60,905	2,30,390	1,88,00,695
Toric Receipts	11,28,03,923	30,08,553	11,53,12,476	\$1,205	1,706	33,001	11,26,35,221	30,10,259	11,58,45,430

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Western Jumna Canal Project. No. 8-REVENUE ACCOUNT FOR AND TO END OF 1916-16.

805 1- 1- 11-11		No. 8-	REVENUE A	E ACCOUNT FOR AND TO END OF 1915-16.								
		IMPERIA	Λ Ε ,	_ _	CONTRI	BUTION.	•	Total	. ,			
Charges.								- •				
	Previous.	1915-16,	Total.	Provious.	1915-16,	Total.	Provious.	915-10.	Total.			
(I.A.)—EXTEN	M: 112.	Rs	-	Rs.	— 			Rs.	∣ Å			
PROVEMEN. (11—Head · Wol (2).—Main · Car and Branches	1,08,	674 550 59,1	459 1,92, 018 13,11,				7100 2,13, 126 14,04,8		16 2,13,401			
(3), Dist' ingrak (4).—Delikaoek Péotective Wor	114 C,03		964 0,05, 142 68,	Fn: 50,	518	50.	510 0,65,	1 "	7,22,017			
Toral I.A.	,	1,18.	ins. 22, 7,0	1 5 2,50		471 3,07						
(I.B.)—MAINTE NANCE AND R PAIRS.	c.							1,40,1	82' 25,42,126			
(1)—lirad Won (2).—Mar. Cana and Braches.	71,35,3					500 83, 5°C 4,41,	254 18,82, 153 75,81,6		19 19,35,022 28 70,10,136			
(5).—Deal eage Works Total I. B	32,54,1 4,50,5					1,71,		21 1,85,7	14 43,15,035			
(I.C)-C) NEEDS	1 1,33,81,7	11 6.08.6	55 1,39,93 8	99 ₁ 6,7,3,5	13 20,0	998 7,1 1,	1,10,78,2	54 6,20,6	86 1,47,07,940			
Tion. (II)Establish Ment.		55 1,1	73 1,02,9	2,0	21	-20 2,0	1,03,8	06 1,14	1,01,969			
(5)—Direction AND ACCOUNT (6) —Exercise	20,52,88	50, 57,9	21,10,30	69 82,78	99 4,5	73 87,	21,35,1	70 62,60	21,97,741			
Cotatalistant (7)—Mudical Do. (7A.) Beleven Do.	17	11,711	C		10,3	86 3,18,8	ļ					
(7B.)—Nationation Estable myear, (7C.)—Plantation	17,24		16] (e) 01,77,53 19] 17,43	[] 1,38,50	30	06 1,33,0	96 61,04,2 17,2	2,05,0; [6] 18				
Datapliarment. (7D.)—Leat pani	79	,	79	\$	<u> </u>		71	90 ***	790			
Pension Allow ances. [7L.)—Miles and	1,12		110	79,34	2 2,10	Dei 69,4	78,34	2,10	80,450			
WACHINERY.	1,58,56,76		1,12		,		1,1:	23 3	1,123			
(1)—Scinutific In-		5,66,40	1,01,23,16	6,76,17	17,10	6,55,2	05 1,61,91,85	5,83,50	1,70,7			
ETPURENTS AND DRAWINGMATERIAL (2)—PLANT AND MACHINERY.	.	1.06	1,00	,	•>•			1, 06	1,067			
(3)—Toots. (4)—Navigation Plants.	::	7,755	3,70 1,70		.::		:: '	3.72 1,70	3,723			
(5)-Canp Equipage (5)—Live Serce.	1,951	3,617 46	41	···		-	1,05	1	6,569			
(71—Office Form). Tury. (12)—Miscell Ann.		1,763	1		i	::		1,76	1 "			
OU3. (5)—Repairs and	2,52,200			1	80	1	0,00,00	1	i			
CARMAGE. TOTAL	1,80,421			·	!	52		12,509	2.28,033			
(IV)REFUNDS	3,64,012	- 712117	•		85	23,10	2 5,18,73	30,127	5,48,450			
ov REVENUE. (V.) PROFIT AND	1,205	\-, - ,-	3,70,241			***	3'08'015	2,202	3,70,244			
General work to end of 1601-05	45,92,523	••	48,02,523		***		1,505 48,02,723		1,295 48,92,523			
Total	3,79,58,090	13,26,215	3,85,84,371	16,11,70:	frati	150100			20,02,020			
Indirect Charges dobitable to Ro- venueAccount ne per Account No f	26,19,775	81,371	27,01,156	•••	# # # # # # # # # # # # # # # # # # #	17,02,37;	3,98,98,7-3 26,18,775	13,66,914 81,371	4,02,86,707 27,01,150			
Total Chinges Balance, Net Ro-	3.98,77,86° 7.29,20,055	14,07,61r 16,00,007	4,12,83,194 7,15,50,992	16,11,704 -16,10,106	60,660 —58,003	17,02,37: -15,69,36	4.15,19,872 7.13,15,640	14,08,285	4,29,87,617			
GRAND TOTAL	11,23,01,023	30,08,563	11,68,12,470	31,208	1,706	33,001	<u> </u>	20.10.254	7,28,57,823			
(a) Includes R4, 17,1	08 on accoun	t of soignio	rapo darine !	ha wase 1					* 1)***(1**U			

⁽a) Includes Rs. 17,108 on account of seigniorage during the year. Up to date Rs. 1,71,824.
(b) 1, 18. 5 on account of water rates and Rs. 1,638 on account of owners rate.
(c) 1, 270,700 on account of fees for collection of Rovenuo.
(d) 2, 2,10,270 nore would have been carned had not owners rates on cortain lands irrigated been remitted in favour of Rovenuo arsignees.

OFFICE OF ACCOUNTS FOR THE YEAR 1915-16.

Western Jumna Canal Project.

No 4.—INTEREST ACCOUNT FOR AND TO END OF 1915-16.

				Amount.	•	,		•	Amount.
	for the year	1015-16			Not Revenue	realized to end of during	1914-16 1915-16	geo / geo	lts. 7,29,26,055 16,00,937
Total outlay to ond of Less half outlay during		Rs.			٠,				
Interest at 3'4725	••	 Total	•••	5,85,086 2,20,02,600					·
Bolanco Rovenue afte	r dofraying	Interest c		5,10,24,492 7,45,20,992			Total	***	7,45,26,902

No. 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

	Particulars.				Provious.	1015-16.	Total.
CAPITAL-			حسومهم المحاطمهم		Rs.	Re.	Rs.
Capitalization of abatement of Lan	d Rovenue .:	•••	,***	••	2,15,986	575	2,16,581
Loave and Pension Allowances	Imperial	••	••	••	5,93,170	,	5,03,627
	(Contribution	***	••	••	29,019	. ••-	20,040
•			Total	••	8,38,205	1,032	8,39,237
Deduce-							•
Leovo and Pansion Allowances deb transferred to Account No. 2 of (ited to Native States to	en bolns	direct chor	go and	20,049		29,019
Net dobitable to Imperial	••	***	••	***	5,09,156	1,032	8,10,188
Revenue-					,	-	•
Capitalization of abatement of Lar	nd Revenue	••	••	•	14,202	. 2,071	10,367
Leave and Pension Allowances	[Imperial	•••	•••	•••	26,05,487	79,296	26,84,763
reado and Lension Milowaners	Contribution	***	•• ,	••	78,342	, 2,105	80,450
	•		Total	••	26,98,121	83,47!	27,81,600
Deduce-	1		•				
Leave and Pension Allowances del transferred to Account No. 3 of t	pited to Native States to	reated as	direct cha	go and	78,342	. 2,108	80,450
Net debitable to Imperial Revenue	,	•••	410	•••	26,19,779	81,371	27,01,160

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Western Jumna Canal Project.

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

								1
,	CHARGES	AGAINST C	losed Sanc	Con	ENT SANC	rions.	dato cur-	
PARTICULARS.	Expenditure against Con- renction Esti- mato.	L'appenditure • against open canal Eune- tions.	Total.	Charges to data	Amount of Sano tioned Esti- mo'o.	Unapant Balanco of Entimáto.	Total charges to date against old and current sanctions,	Remarks.
imperial.	Rs.	Rs.	Rs.	Rs.	Ra.	Rs.	Ra.	(a) Brey's No. 935 W.I. 10,890
Direct Charges.	<i>(</i>	1	1	1		}	}	No. 01420 228-12 5,000
Works	1,02,90,277	£8,75,002	1,31,65,270	—31,20G	81,977	63,273	1,31,83,083	5-7 -
Establishment	27,27,22?	¹ 6,00,704	33,27,017	1,028	4,004	8,979	33,28,042	
Tools and Plant	1,77,785	40,217	2,18,002	3?	323	303	2,18,035	12-0-20
Suspense Balances		٠,	••	2,13,769	••	2,13,769	2,18,768	No. 0102 W.I. =3,121
•					•			n No. 0391 W I. = 2069
Total	1,31,05,286	35,15,013	1,67,10,20	1,53,620	37,206	-1,16,371	1,08,43,828	37206
Less Receipts on Capital Account.	11,201	260	11,451		••	Xíl ,	11,481	
Not Total	1,31,84,081	35,14,783	1,46,99,317	1,53,530	37,206	-1,45,324	1,08,82,347	
Inderega Charges.								
Capitalized abate- ment of Land Rovenue.	1,63,167	03,394	2,10,561	••	••	,,	2,16,561	
Leave and Ponsion Allowances.	G,12,004	81,300	6, 03,481	148	••	—143	<i>5</i> ,93,027	
Total	0,65,261	1,14,784	6,10 ₍ 0 tr	1 (;		143	8,10,188	
GRAND TOTAL	1,38,49,345	36,59,517	1,75,03,869	1,93,673	87,205	- 1,46,467	1,76,92,53E	
CONTRIBUTION. Direct Charges								
	8,31,341	60,299	0,00,610				0,00,610	
Works	2,17,408	10,711	2,30,512			**	2,36,512	
Tools and Plant	23,514	954	23,765			••	23,768	
WOOM OHN WAREN	,				••			
Total	10,74,653	80,297	11,60,950			••	11,60,050	
Lear Receipts on Capital Account.	472		475	**			472)	
Not Total	10,74,181	85,207	11,00,178			٠.	11,60,478	
Grand Total	10,74,181	66, 207	11,60,478			••	11,61,178	

Upper Bari

		1	DIRECT CHARG	irs.	Cost of con-	
HEADS OF ACCOUNT.			Ímperial.		etruction as now estimated (Construction	Expenditure against Close
•		Previous.	i*15-10.	Total	Estimate closed on 31st March 1890).	Estimato.
I.—Works.	-	Ra.	, Rs.	^ Rs		•
1. Head Works-						•
C.—Works			•			
K.—Buildings	"	7,25,200	01,88	8,17,195		
		03,031	•	63,031		
Total		7,8 <u>8,33</u> 6	01,889	8,90,210		···
2. Main Canal ann Brakches—	Ī	·	· · · · · · · · · · · · · · · · · · ·			
A.—Preliminary Expenses		8,186	•			
B.—Land		1,14,578		6,186	.	
D.—Regulators		3,52,039		3,17,578	4	
E.—Falls and Weirs	-:	19,49,484		3,52,009		
F.—River and Hill Torrent Works		5,39,998		19,49,481 5,39,998		
F. (1)Other Cross Drainage Works		1,18,245		1,18,245		
G.—Bridges		€,52,43€	1	8,52,430	•	
H.—Escapes		6,38,733		6,38,733		
I.—Navigation Works	-1	4,78,585		4,78,555		
J.—Mills]	1,47,530		1,17,530		
K—Buildings		10,01,356	67,952	10,72,338		
L.—Earth-work		38,60,183	3,716	39,73,199		
M.—Plantations		93,475		95,475		
O.—Miscellaneous P.—Maintenanco		3,52,306	2,34,900	5,80,000		
- Jaintenanco	••	75,872		76,872		
TOTAL		1,06,27,312	3,08,091	1,09,33,103		
DISTEIBUTARIES-						ı
A.—Preliminary Expenses		24,333				
B.—Land		3,70,661	**	24,333		
OWorks]	16,28,151	10	3,70,661	. '	
L.—Earth-work		16,93,384	-10	16,28,141 16,98,984		
O.—Miscollaneous		8,28,491	-1,411		 	
P.—Maintenance	! !	8,354	•••	3,27,086 8,354	-	
		85,770		35,77C		
		63,127		63,427	-	
Lahore City Rajbaha		12,721		12,724		
••	-	-				

ACCOUNTANT-GENERAL. FOR THE YEAR 1915-16.

Doab Canal Project.

FOR AND TO END OF 1915-16.

•			נם	rect Chirges.		Cost of con- struction as	101.
Heads or A	CCOUNTS.			Imperial.	J	now estimated (Construction Estimato clos-	Expenditure against Closed
			Previous.	1915-16.	Total,	ed on 31st March 1890)	Estimates.
		3	Rs.	Rs.	Ľa.	Rs.	Re.
4.—Deathage and Prote	CTIVE WORKS-						
A.—Proliminary Exp	enses	***	639		532		
B.—Land	• ••	•••	6,519	•••	6,510		
C.—Works	• ••	••	28,906	••	28,006		
L-Earth-work .	• ••	200	98,247	••	96,247		
O.—Miscellaneous	• ••	••	1,163	***	1,163	+	
	TOTAL	••	1,33,374		1,33,374		
Total	I WORKS	••	1,57,10,317	3,00,550	1,01,15,876	1,60,98,768	1,57,25,59
•						ŧ	
II.—ESTABI	ISHMENT						
t. Direction ,		,,	8,34,951	13,468	8,48,319		
6. Executivo	••	••	25,93,635	51,115	26,44,750	`	
7. Modical		106	5,465		5,465		
	Maman		24.29.051	24 720			
	Total	••	34,33,951	G4,583	34,08,534	34,66,203	34,24,90
III.—TOOLS A	nd plant.						
4. Navigation Plant	• •••	•••	22	103	22		
Nill Ploat	••	••	258		259		
Miscellaneous	Pe1	••	9,01,048	0,191	9,13,237		`
E. Repairs and Carriage	•••	•••	2,300	••	2,360		
	TOTAL	••	0,06,686	9,191	0,15,877	11,90,675	8,95,2
iv.—Suspensi	ACCOUNT.		j	7			
14. Stock	• •••	,,,	0,02,856	1,40,916	5,42,941		
15. Stock Parchases	••	••	-1,236	-213	-1,440		
15s. Stock Sala '	• • •	••	146	33	113		
16. Miscollaneous Advan	ces		2,741	3,411	6,152		
17. London Invoices		••			••		
ls. London Stores,	. 144	, 	53,101	16,302	69,403		
	TOTAL		7,47,008	-1,30,448	0.18.100		
GRAI	ND TOTAL	,,,	2,08,07,502	3,39,885	8,17,160 2,11,47,447	2 07 64 646	000 45 65
VLESS RECEIPTS	ON CAP		10,955	0,00,000	16,955	2,07,64,646	2,00,45,72
ACCOUNT.	NET TOTAL		2,07,90,607	3,30,885	2,11,30,492	2,07,47,691	2,00,28,77
	•				-1221-01102	-,011-11001	ا از ۵ مراسان
APPORTION	nment.		۸,				
19.—Irrigation Works	6.0	2-4	2,07,90,607	3,39,885	2,11,30,492		***

⁽c). Shere of accounts excluded from 1912-13.

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16

Upper Bari Doab Canal Project.

No. 3 —REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Inperia	ī.,	Imperial			Lie	
Rесертз.	Provious.	1013-16.	. Total.	Crarges.	Propious.	1916-16.	Total.	
		Rg.	Rs. 9,60,53,498	(LA.)—EXTENSIONS AND INPROVEMENTS.	Re,	Rs.	Rs.	
Cwners' rates on irrigated	6,575	444	8, <i>57t</i>	(1)—HEAD WORKS. (2)-JIAIN CANAL AND BRANCHES (3)—DISTRIBUTARIES (4)—DRAINAGE ANDPROTECTIVE	3,32,870 14,25,037 11,97,782 1,75,275	27,754 56,217	3,45,395 14,52,811 12,53,999 1,80,897	
land.	0,012	***	6,070	Total L A	31,80,934	1,02,058	32,33,042	
Sales of water	7, 12,679	19,139	7,31,818	(I. B.)—MAINTENANCE,AND REPAIRS.				
Supply of towns	2,399	195	2,593	(1)—Hfad Works. (2)—Main Canal and Branches (3)— Distributables (4)—Drainaos Works	46,63,120 84,04,745 42,44 686 89,227	2,90,586 1,59,863	47,26,213, 87,85,331 44,04,549, 1,12,321	
Receipts from Plantation	10,22,357	24,235	10,48,595	TOTAL I. B. `	1,74,91,778	5,36,636	1,50,28,414	
•		•		(I C.)—COMPENSATION.	49,066	250	49,322	
Receipts from other canal produce.	2,39,937	777	2,40,714	(II)—ESTABLISHMEXT,				
Water power	41,84,377	1,13,3 59	42,97,736	(4),—Direction and Account (6)—Executive Establishment (7).—Medical Do. (7A)—Revenue Do. (7O.)—Flantation Do. (7D.)—Leave and Pension Al- Lowarce.	79,41,942 1,12,074 65,48,928 (b),40,155	3,00,574 5,272	22,65,129- 82,42,516- 1,17,946 68,17,687 40,155	
Navigation Receipts	5,477	••	5,477	Total HII TOOLS AND PLANTS.	1,68,56,011	6,27,474	1,74,83,485	
Rent of Buildings	}	8,163	7	1. SCIENTIFIC INSTRUMENTS AND DEAVING MATCHIALS, 2. PLANT MACHINERY. 3. TOOLS.	₽,204	105 —52 1,763	103 8,142 1,763	
Fines	}13,32,941	2,931	14,52,039	4. NAVIOATION PLANTS, 5- CAMP EQUIPAGE.	2,64,€02 3,69,264		30 121 157 2,295 2,83,300 3,53,167	
Miscellaneous and other lisecipts.	}	1,08,604	}	Total in Toole & Plants	0,42,160	16,920	6,59,050	
Total	9 ,97,35,75 3	41,03,802	10,58,39,045	(iv). Refunds of Revenue (v).—Phofit and loss	1,0:3	1,216	1,68,187 1,073	
Share of Land Revenue col- lected in the Civil Depart- ment	1,43,50,853	5,19,983	1,49,00,836	Total	3,83,38,343	12,84,600	3,96,22,903	
Interest on sale proceeds of wasto lands bonefited.	, 6,84,232	66,310	7,50,542	Indirect Charges, dobitable to Rovenuo Account as per Ac- count No. 5.	20,06,960	69,221	27,56,190	
Total	1,50,35,685	- ; - G,1G,293	1,55,51,378		1,10,05,312 7,37,65,526		4,23,79,093 7,71,11,930	
Total Receipes	11,47 70,883	47,20,185	11,05,01,023	•			11,94,91,023	

 ⁽a). Share of Accounts oxcluded from 1912-13.
 (b). Includes Rs. 1,09,032 on account of fees for collection of revenue.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Bari Dosb Canal Project. No. 4—INTEREST ACCOUNT FOR AMD TO END OF 1915-16.

	Amount.		Amount.
Total interest charges to end of 1914-16 Do. for the year 1915-16 Total outlay to end of March 1916=Rs. 2,11,30,492 Less half outlay during 1915-16= , 1,60,942	3,38,48,076	Not Revenue realized to end of 1914-15 Do. during 1915-16	7,37,65,526 33,46,404
Moan Capital at charge Interest at 3.4725 per cent_on above 2,09,60,650	7,27,855	,	
Total	3,45,75,931		
Baluero Revenue after defraying Interest charges	4,25,36,900		
Total	7,71,11,430	Total	7,71,11,930

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.									
Particulars.					Provious,	1915-10.	Total.		
CAPITAL— Capitalization of ahatoment of Land Revenue Leave and Poisson Allowances	***	***	***		Rs. 20,411 7,12,327	Rs. 225 9,042	Rs. 20,636 7,21,369		
			Total		7,32,738	9,267	7,42,005		
REVENUE— Capitalization of abatoment of Land Revenue Leave and Pausion Allowances	***	•••	,	200 100	18,199 26,48,770		10,574 27,30,616		
			Total	***	28,65,069	89,221	27,56,190		

	-STATEM						,	,		
	Charges against Closed Sanctions.			Cubert Sarotions.			Total	Revares.		
Particulars.	ture against Construc- tion Eati-	Expendi- turo against open canal sanotions.	Total.	Chargon to data.	Amount of Sanctroned Estimato.	Vuspent Balanco ol Datimato,	dato against old and current sanctions.	5	No, and date.	Amoun t.
Direct Charges—	Rs.	Rs.	Ra.	Re.	Re.	R5.	Rs.			Rs.
Works	1,24,50,791	32,74,805	1,67,28,696	3,90,280	3,73,172	17,108	1,61,15,876	G. I.	935 I., 16.6-14	1,22,959
Establishmont	27,01,452	6,33,454	34,26,996	73,528	41,297	-32,331	34,98,534	Socy , I. B.	3368 W. I., 19-11-15	8,071
Tools and Plant	6,92, 215	3,97,010	8,05,225	20,052	3,04,450	2,83,798	9,15,877	G. L	479 I , 29-4-15	1,33,894
Euspense Balances	•••	•••	***	6,17,160	41.4	6,17,160	0,17,160	Socy 1. B.	1138 W. I., 9-3-16	10,773
. Total	1,57,40,458	43,05,269	2,00,45,727	11,91,720	7,15,010	3,52,R01	2,11,47,447	Secy I, B.	731 W. I, 4-2-13	3,696
`		•			-			G. I.	1745 L, 20-11-13	3,99,010
Less Recoipts on Capital Account	16,955	† 70	10,955	•••		,,,,	16,955	s. e.	508, 20-1-18	857
•								s. E	7370, 22-11-15	2,658
Net Total	1 57 97 607	42.05.800	2,00,28,772	11,01,720		2 22 22	2,11,30,492	S, D	1835, 22-3-15.	230
Indirect Changes-	1	40,00,208	2,00,20,112	11,01,120	7,18,018	-0,82,801		Cocy., L. B.	2706. 20-10-08	41,752
Capitalized abate- ment of Land Revenue.	8,391	12,255	20,636		191	***	20,636			
Leave and Pension Allewances.	0,22,376	88,683	7,11,058	10,311		10 ₁ 311	7,21,360			
Total .m	6,30,756	1,00,039	7,31,691	10,311		-10,311	7,42,005		İ	7,18,919
GRAND TOTAL	1,63,54,259	44,06,207	2,07,60,466	11,12,031	7,13,919	3,93,112	2,18,72,407			

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sirhind Canal Project.

N.o 2-CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

						DIRE	CT CH	ARGES.				osti- mato	Bali
				IMPERI	ll.	Co	ntelbeti	. KO		TOTAL.		na now on Esti roh	alosed
•	HEADS OF ACCOUNT	ŗ.	Provious.	1016.16.	Total.	Provious.	1016-16,	Total.	Provious.	1916.16.	Total,	Cost of construction as now esti- mated (Construction Estimate closed on 31st March).	ExPenditure against closed
1.	I.—WORKS	-	Ba.	Rs.	Rs.	Rs.	Rs.	Re.	R9,	Rs.	Rs.		
		Ex-	- 483		48:	272		279	755		765	,	
	penses B.—Land		7,063	1	7,05	1		3,974		1	11,037	í	
	C.—Works	••	8,46,377	1	1 '	1,76,088			13,22,465	1			
		•••	67,313	ļ					•				
	O-Miscollosous	••	73,804		73,80			3,538		. '	77,312		
	P.—Maintenango	•	24,104		24,104	1		13,550	1	-	37,563		
				73,035									•
	Total	••	10,10,144	13,080	10,92,230	0,00,254	41,111	0,70,405	15,54,438	1,14,197	10.68,536		-
•		ix-	23,536	••	23,536	19,298	••	19,398	42,934		42,934		
	penses. B.—Land		5,59,880	••		2,54,332	••	2,54,332	1	Į.	8,14,212	,	
	D.—Regulators		4,18,720	••	4,18,720	2,95,027	•1	2,95,027	7,13,747	,.	7,13,747		
	E-Falls and Woirs		7,74,938	••		3,97,900	••	3,07,009	11,72,847	••	11,72,847		
	F.—(1).—Other Cre Drainage Works	03 6	12,32,587	••	12,32,587		••	10,41,549	22,74,136	•• ,	22,74,136		
	G.—Bridges		7,63,893	21,940	8,05,633	4,70,362	10,587	4,69,949	12,63,255	32,527	12,95,782	•	
	H.—Escapes		1,86,536	••	1,86,696	1,03,318	••	1,03,313	2,89,999	••	2,89,999		
	I.—Navigation Wor	ks	17,47,254	••	17,47,254	3,84,346		3,84,346	21,31,600		23,31,600		
	J.—Mills		41,513	••	41,513				41,513	••	£1,5 13		
	KBuildings .	• •	9,41,033	3,923	0,44,956	3,08,671	1,674	3,10,345	12,49,704	5,597	12,55,301		
	L.—Earth-work		15,85,820	-1,996	48,63,624	31,61,614	 .	31,61,614	80,47,434	-1,995	80,45,438		
	M.—Plantations		1,20,312		1,20,812	1,04,358	••	1,04,358	2,25,170	••	2,25,170		
	N —Tanks and Rese	er-	1,940	 -	1,940		••		1,940		1,940		
	O.—Miscellancous		87,897		87,897	77,587	••	77,387	1,55,224	••	1,65,284		
	P.—Maintenance]	2,27,821	••	2,27,821	2,09,075	••	2,09,075	4,36,800	••	6 *36 ² 896	~	
	TOTAL		120,34,330	23,867	1,20,58,197	88,35,341	12,261	G8,43,602	L,88,70,571	30,128	1,89,06,799		
	Distributables-										·		
	A.—Preliminary E. penses.	z-	61,908	••	51 . 908	39,471	••	89,471	91,379	••	91,379		
	T) T 3		3,87,091	555	3,85,530	72,601	••	72,601	4,50,592	— 555	4,59,137	~	
	C.—Works		14.08,001		14,08,001	7,95,007	••	7,05,007	22,03,008		22,03,008		
•	L.—Earth-work		16,57,046]	16,57,940	0,77,792		9,77,792	20,35,738	••	26,35,738		
		.	2,65,485		2,55,485	17,803		17,803	2,73,288		2,73,288		
•	P.—Maintennaco	• [••				••	•••		٠	*		
	Total .	. 8	7,60,431	-656	37,59,876	19,02,674	••	19,02,574	50,63,105	-556	56,82,550	-	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sirhind Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1015-16.

				DIRE	CT OHA	RGES.				W es- Esti-	closod
		Imperial	<u>.</u>	Co	NTRIBUT	ion.	1	TOTAL		n as no ruction lst Mar	ogainst, c
HEADS OF ACCOUNT.	Previous.	1915-16.	Total,	Previous.	1916-16.	Total,	Provious.	1016-16,	Total	Cost of construction as now estimated. (Construction Estimate closed on 31st March .)	Expenditure aga
DRAINAGE AND PRO-	R_3	Ra.	Rs.	Ry.	Rt.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A.—Preliminary Ex- penses.	51		31	17	••	12	45	•••	48		, '
BLand	55,982	,	\$5,983	44,536		44,530	1,60,518	•	1,90,518		
C.—Worla	3,303		3,300	1,558	,	1,85	5, 161	••	5,161		
LEarth-work	5,31,372		5,31,372	4,21,000		4,21,000	0,55,46		9,55,46		
O.—Miscellaneous									-		ŀ
P.—Maintenance	2,622		2,625	1,475		1,478	4,00		4,097		
TOTAL	6,97,310		5,93,310	4,71,078	499	4,71,978	10,65,298		10,65,268		
Total I-Works	1,74,07,215	90,399	1,75,07,513	07,40,287	53,375	07,00,659	2,71,53,502	1,40,770	2,73,03,272	2,76,07,25	2,71,13,425
II.—ESTABLISHMENT 5. DIRECTION 6. EXECUTIVE 7. MEDICAL 8. SPECIAL SURVEY 8‡. SPICIAL FIELD	46,63,815	_1,327 2,571	46,55,089	(a) 28,24,820	3,26; 1,40]		74,78,600	<i>5</i> ,038	74,84,603		
SURVEY. LEAVE AND PENSION ALLOWANCES.		10	<u></u>	5,30,203	657	5,30,050	5,30,203	657	5,39,950	, 	
Total	46,53,815	1,244	16,55,089	33,64,113	5,351	33,69,46	60,17,958	6,508	60,24,550	66,53,300	80,11,218
PLANT, 4. NAVIOATION PLANT 2. PLANT AND MA- OHLVENY, 8. MISCELLANEOUS REPAIRS AND GARRIAGE,	21,01,050	··· 227	21,05,210	11,90,791	••• 131	11,90,022	32,05,780	359	32,06,135		,
Loss by Exchange	2,740		2,710	10,568		10,504	13,709		13,305		,
TOTAL	21,07,720	227	21.07,950	12,01,350	131	12,01,490	33,00,058	359	'33,09,416	83,11,370	33,08,434
IV.—SUSPENS E ACCOUNT. STOOK	2,06,707	21,073	1,85,621				2,00,797	-21,973	3,85,821		
14. Stock Purchases	40	—137	—18C	[#1	-	-10	—137	186		
15a STOCK SALES	107	52	55		••	•••	107	52	5 5	•	
16. MISCELLANDOUS AD- VANCES.	081	297	1,178		•	***	981	207	1,146		-
17. LONDON INVOICES				٠,	••		,,,	-	••		-
18. LONDON STORES	12,084	-12,031	844	••	••		12,034	12,304	•••	•	
TOTAL	2,10,576	-83,999	1,95,971		• 1		2,10,870	-33,500	1,85,071		
	2,43,98,656	63,070	2,41,52,029	1,13,11,765	68,554	1,43,70,613	3,87,00,418	1,22,824	3,58,23,242	3,80,71,921	3,81,93,077
V.—LESS RECEIPTS ON CAPITAL ACCOUNT.	1,07,518	•••	1,07,518			08,008			1,76,126	1,76,126	
	2,42,81,141	63,970	2,13,45,111	1,42,43,151	58,954	1,43,62,065	3,80,24,292	1,22;521	3,86,47,110	3,87,95,795	3,82,56,951
APPORTIONMENT. 49.—Indication Works 43.—M. W. and Naviga.	2,42,81,141	63,970	2,43,45,111	1,42,43,151	58,854	1,43,02,005	3,85,24,202	1,22,824	3,86,47,116	3,87,95,705	3,92 ₁ 56,051
TION, IMPERIAL PROVINCIAL	•										

⁽a) Share of accounts excluded from 1912.13.

OFFICE OF ACCOUNTANT-GENERAL, ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sirhind Canal Project.

No. 5,-REVENUE ACCOUNT FOR AND TO END OF 1915.16.

		Intrata			o tun uni)		Total.	
Recuese.	Perion,	1915-16.	Tetal	Perfor	101.16.	F:14	Provi m.	1013-16.	Total.
	Re	Rs.	lie.	Ea.	it,	l.·.	1'9.	Fit.	Rs.
Occupier'snies	1,00,17,617	27,09,24	is a lather	1,711	D,277	10,95	וראומניו	\$5,10,500	0,55,37,700
Falm of water	tytopti	22,61	2,54,271	}4,~\$t/		JY _i es	\$,k2+*1	22,146	4,05,119
Supply of towns	30:	1 74	1,21		111	••	761	4 5	1,00
Recolf to the Plantance	4,67,221	24,774	<i>6,2*5</i> ^1),et,av	19,92	2,50,171	2,02,577	41,507	6,51,073
Receipts from Other County et 3 in	1,72,17:	t-1	3,73,761	1,12,011	4	1,77,5¢°	5,50,66	£1]	2,52,621
ne su original	17,67,5 1	1,17,52]r 3,514	10:	ፈ ግ, ፣ እ፡	1 24/17	arantir	1,7,40	01/A4/020
Nasioni n Pec 1722 .	\$ ₆ , 10	11,44	g 11,457	97,77	1 ,11	1,7° (2,1 ,417	17,175	3,35,57
Report Bulliage	1/7,41	ry is	1,15,6 *	5.1.	1,77.	en e	177751	7,41;	1,6:,7::*
	# 4 ₇ ° , g	2	st *	r).	734	Ele	45,21t	4.\	44,116
Promitiments as Lotter Lengt	11,25,4	1,4),	1681771	221	:13	₽",***	13,73,441	1,42,751	16,20 210
Total	747,07,20	:17 .5 .	\$ 3 2 7 2 4 8 P	15,14,725	·	LSC P	7,17,25.274	::.19.16.	כיקיורה
Tens of Land Hespitae (1° ma) as the Casal Deficition de	(7,61	19,551	1,7%				(2,712	52,321 5	\$,50,57¢
hise tano lique di dus i Tull i fud		Allenda Prince of the Prince o							
Tosat Ne 18er	7, 3,57,73	50,0 16-1	1,4,177	1-,01,62-		18,52,10	7,1-01,557	23,47,65	2/25/05/128

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sirhind Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1015-16.

		IMPERIA	L.		CONTRIBUT	ION.		TOTAL.	
Charoes,		′		1				1 .	
	Previous.	1015-16.	Total.	Previou.	1915-16.	Total.	Previous.	1916-16.	Total
(I.A.)—EXTENSIONS AT IMPROVEMENTS.	η R ₀	. R.	Rs	Rq.	Rs	Rq	Rs	. R ₈ ,	R
(1)—HEAD WORKS	1,66,01	10 35,42	1,02,78	89,10			7 2,45,01	13 55,34	3,00,3
(2)—Main Canal and Branches.	0,50,91	ic 60,65	10,11,59	10,65,58	(a) 1,40,35		1	i	1
	6,40,00	00,88	0 6,81,99	0 14,26	2	.11,26	1	, , , , , , , , , , , , , , , , , , , ,	1 ' '
(4)—DRAINAGE AND PR	0- 41,03	21	6 41,28	20,37	7	0 20,45	1	1 '	1 ''
Total I. A.	17,95,78	1,31,40	8 10,30,19	2 17,55,12	1,60,35	0, 19,57,48	7 36,83,93	12 8,03,70	
(I.B.)—MAINTENANCE AN REPAIRS,	D		<u> </u>			1 20,0,00	30,63,37	3,03,70	38,87,0
(2) MAIN CANAL AND BRANCE (8) — DISTRIBUTARIES	7,30,00 38,05,99 42,18,00 4,30,33	0 1,53,97 0 1,61,98:	7 39,50,87 48,42,99	0 21,74,78 1 35	0 80,40	23,01,24	6 60,80,08 42,18,37	2,40,437 2 1,64,986	63,21,1 43,83,3
TOTAL I. B.	01,81,83	4 10 00		ļ		3,10,70	7,03,54	1,12,161	8,16,0
/T // 1 // // // // // // // // // // // /	36,19			-	1,42,03	30,07,723	1,21,30,52	7 6,02,207	1,27,01,0
(II)—ESTABLISHMENT		10	30,21	13,41	3	13,44	40,63	8 20	40,0
(5).—Direction and Account (0).—Executive Establish Ment.	10,72,080 44,01,140	2,01,765	40,08,00	3,20,410 17,00,07					14,69,6 04,60,7
(7A.)—REVINUE DO (7B.)—NAVIGATION DO.' (7D.)—LEAVE AND PENSION ALLOWANCE, (14 PER CENT	50,10,773 20,616	2,17,227	52,58,000	0.020	000	10,610		3 2,48,217 6 314	52,08,9 20,9
on Rs. 77,298.) Total	1,06,65,750	5 F4 F90	110						
(III)—Tools and plant		6,74,590	1,12,40,340	23,92,405	1,20,030	25,13,344	1,30,58,15;	6,95,529	1,37,53,6
1).—Scientific Instruments Drawing Materials. 2).—Plant and Machinery	'l	1,717 150	1,717 150	••	<i>5</i> 16	54C		2,263	2,2
3).—Tools 1).—Navioation Plant	"4,500	4,630 100	4,030	***	. 1,405	84 1,405	••	234 0,035	2 6,0
5).—Camp Equipage D.—Mi-celeaneous	1,525	9,089 1,363	10,006	2,851 3,738	5,108	2,407 8,846	0,960 5,203	156	7,1
7).—Office furniture 8).—Repairs and Carriage		1,935 10,613	3,10,109 1,933	1,02,906	301 086	1,02,511	4,11,051		19,4 4,12,9
Total		20,488	1,35,204	55,052	4,983	60,645	1,80,413	16,496	2,9; 1,95,9(
V.J-REFUNDS OF REVENUE	78/122	741	4,09,419	1,64,056	12,774	1,77,130	6,04,587	42,262	6,40,8
v.)—Profit and loss vi.)—suspense account	372	***	78,807 372	2,530 85	57	2,566 85	80,662 457		81,4t
iscellaneods Aoyances			j						
TOCK SALER	::		::	080 13,842	1,547 640	2,227 14,484	080	1,647	2,22
PURORASE	::		::: \		30 18	30	13,842	646 30	14,48 3
OTAL SUSPENSE ACCOUNT				14,622		-48 		-49	
TOTAL	2,22,00,00:	11,58,600	2,73,59,001	78,30,567	2,175	16,697	14,522	2,175	16,69
direct Charges debitable to Revenue Account as per Ac- count No. 6	14,00,074	00.000			4,48,212	77,78,609	2,05,31,566	10,06,851	3,11,38,11
TOTAL CHARGES		80,090	15,80,067	<u></u>		```	14,00,074	80,093	15,80,06
ilanen Not Rovenue		12,39,602	2,40,30,060	73,30,607	4,48,242	77,78,80!	3,10,30,031	16,87,844	8,27,18,47
GRAND TOTAL		10,88,482 32,28,081			-3,67,670	03,93,701	4,09,61,143	16,20,812	4,21,81,05
	.,,-,,51,610		7,38,16,333	13,01,528	80,672	13,85,100	7,18,01,777	33,08,656	7,52,00,13

⁽a). Includes reigniorage amounting to Rs. 1.30,314 during the year and up to date Rs. (b). Includes Rs. 01,032 on account of fees for collection of Revenue.

(c). Share of account under Imperial excluded from 1912-13,

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

, . Sirhind Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1915-16.

	Amount.				Amount.
	Rs.				Re.
Total Interest charges to end of 1914-15	3,22,95,762	Not Revenue realized	to end of 1914-15		4,68,87,182
Do. for the year 1915-16 $ m Rs$ Rotal outlay to end of March 1916= $2,43,43,111$,	Do.	during 1915-16		19,88,482
Less half outlay during 1915-16 = 31,985 Mean capital at charge = 2,43,13,126	113		-		
nterest at 3.4725%	8,44,273				
Total ; Salanco Rovenuo after defraying Interest charges	3,31,40,035 1,57,35,020			,	•
Total	4,88,76,664		Total		4,88,75,664

No. 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

P	articulars.	•	•	Provious.	1915-16.	Total.
Capital—	•			Rs.	Rs. ,	Rs.
Capitalization of abatement of Lar	d Revenue	••	,	3,20,099		3,20,099
•	(Imperial	••		8,91,174	174	•
Loave and Pension Allowances	· { Contribution	••	•••	5,39,293	667	5,39,950
•*		Total		17,50,566	,i* 831	17,51,397
Deduct Leavo and Pension allowa direct charges and transferred			ed as	5,39,203	657	5,39,950
Not dobitable to Imperial Canal	445 417	***		12,11,273	174	12,11,447
Revenue—					,	
Capitalization of abatement of Lan	d Revonue	••		. 5,873	, . 550	- 6,423
	(Imporial	***		14,93,201	80,443	15,73,644
Leave and Pension Allewances	Contribution	•••		2,94,527	14,852	3,09,379
+	•	Total		17,93,601	05,845	18,89,446
Deduct Leave and Pension allowanc charges and transferred to Accou		es treated as	direct	2,94,527	14,852	3,09,379
Net Imperial Revenue		***		14,99,074	80,993	15,80,067

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sirhind Canal Project.

No 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

						<u>:</u>		
		s votednes.	CLO-EB	CURN	ENT SANCT	IONJ.	Total	
Particulars.	Expendi- ture- ageinst Construc- tion Estimate	Expendi- ture excinst open cand senctions.		Charges. to date.	Amount of Sanctlosed Estimate.	Balanco ol Estimato	sanctions.	
1		3	4		6	7	8	9
IMPERIAL Direct Charces—	Rq.	Rs.	Ra.	Ra.	Ra.	P.s.	Ra.	$\begin{array}{c} G, I . 827 \stackrel{!}{I} = \begin{pmatrix} a \\ \frac{27.5-14}{27.5-14} = \frac{69, 122}{11, 69} \\ G. I. 995 \stackrel{!}{I} = 11, 69 \\ 0. I. 270 \stackrel{!}{I} = \frac{11, 69}{24, 64} \end{array}$
Works	1,20,30,573	17,37,500	1,72,71,573	1,32,016	2,11,161	5,12,421	1,75,03,615	L. G. 2025 W.I. 15,797
Ketablishment	42,71,~5;	3,76,761	46,48,514	6,471	20,607	23,426	46,55,080	
Tools and Pinn:	20,42,851	24,299	21,07,163	613	2,080	1 273	21,07,956	
Suspense Balancs		• "	" :	1,55,971	***	-1,55,271	1,85,971	3,76,414
Total	1,10,86,881	21,58,953	2,41,27,334	3,25,275	3,76,444	51,149	2,44,52,620	
Less Receipts on Capital Account.	1,07,618	44 1	1,07,518	•••	•••	348	. 1,07,518	
Ket Total	4,16,80,660	21,38,963	2,40,10,516	3,25,205	3,70,444	51,149	2,43,45,111	(a). fil par cent, of total estimated amount.
INDICECT CHARDEN-)							
Capitalized abatement of Land Rovenus.	3,15,270	4,820	9,20,090	***	•••	··· ·	3,20,039	,
Leavo and Persion Allowances.	8,37,501	E0,749	8,00,443	902		— 90r	8,01,348	
Total	11,52,97%	57,569	12,10,549	90		91:	12,11,447	
Grand Total	7,70,32,630	21,06,521	2,5?,70,358	3,26,20	3,76,458	60,241	2,55,50,758	
CONTRIBUTION.			- 1					
Direct Charoes -)	ì	1				G. I. 827 I_ (ø
Works	120,980,20-	3,72,927	97,41,852	67,807	1,10,595	91,558	97,99,659	27-5-14 50,132 G. I. 195 I_ (a)
Retablishment	32,56,004	25,226	32,52,00	6,53	12,195	5,321	33,69,461	G. 1. 370 I (6)
. Tools and Plant	11,95,960	E,311	12,01,231	19:	810	0-1	12,01,400	G. I. 14 I. (a)
Susponeus Balances				***				1,62,400
Toisl ,	1,25,31,600	4,74,131	1,19,00,765	61,571	1,62,400	07,570	1,43,70,613	hammen.
Less Resoriete on Capital	CE,593	,	c6,408	114			68,608	(a). 36 per cent. of total estimated amount.
Net Total	1,37,63,916	4,74,2in	1,42,37,136	61,876	1,021:00	97,530	1,43,02,005	•
Greed Total	1,37,03,016	4,74,119	1,42,57,136	61,570	1,52,100	97,530	l,43,02,005	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Chenab Canal Project. No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

		,		Di	RECT CHARGE	3.	Cost of	,
Heads of A	COURT.	•			Imperial.		construction as now estimated.	Expenditure against
				Provious.	1915-16.	Total.	Construction Estimate closed on 31st March	closed Estimates.
I.—WC	RKS.		·	Rs.	Rs.	Rs.	Rs.	. Rg.
. Head Works-		•		5,710		<i>5,</i> 71(
A.—Preliminary Expons		•••		64,105	i 1	04,10£		
B.—Land	***	`••	,	50,47,622	1 1	50,17,622	Į.	
CWorks	131	•••	,	98,633	1	1,01,128	į.	
K.—Buildings	•••	•••		6,084	i			
OMiscellancous	140		·	1,08,784	• • •	0,064 1,68,784	1 .	
P.—Maintenanco	***	•4•		1,00,104	••	1,00,104		
t		Tatal	<i>,</i>	53,98,938	4,795	53,90,733		
. Main Canal and Brander	6				,			,
A.—Proliminary Expense	9	**		20,369	.,.	1,28,360	,]	}
BLand	••	••		2,15,279		2,15,279	}]
D.—Regulators	,.			10,83,792	1	10,84,449	}	
EFalls and Weirs		••		6,05,486	•	6,18,284]
F. (1).—Other Cross Dra	nago Worl	k8 .,		6,87,002	1 1	6,87,002	1 '	ł
G.—Bridges	••	418		10,60,501	16	10,60,607		
II.—Escapes ~	140	496		5,39,583		5,42,313	i .	1
· J.—Mills	••	••		73,020		73,020	I.	
K.—Buildings	••	••	,.	16,84,909	1 1	17,04,401	1	
LEarth-work		•••		74,81,467		75,22,750	ł .	
M.—Plantations		••		1,39,734		1,39,734	1 .	
OMiscellaneous	••	***		3,77,358	1.	4,34,841	1	1
P.—Maintonanco	•••	***		1,05,017		1,05,047	1	-27
		Total .	••	1,41,50,651	1,33,451	1,43,14,10;		
Distributaries—							1.	<u> </u>
A.—Preliminary Expens	. e	444		I,34,355	313	1,31,666		1
B.—Land		•••		1,17,863	1	1,17,868	1]
GWorks	••		,	17,75,589		17,70,831	1	
L.—Earth-work		* (26,60,156		26,05,020	1	
O.—Miscellaneous	•	. P Magraph	;"	4,75,624	1 :	4,76,221	į	
P.—Maintenance	••		,	34,570	('	34,670	1	
,-	: ,	h : \$5			<u></u>			-
•		Total	,,,,	51,98,162	7,921	52,06,088	3	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

		****		,Dm	ect Charges.		Cost of con- struction as now ostimat-	Expendituro
HEADS OF ACCOUN	iT.		ļ	•	Imperial.		ed (Con-	against closed
	,			Provious.	1915-16.	Total.	Estimate closed on 31st Vorch 1900.)	Estimates.
4. Drainage and Professive W	ores—			R4.	Rs.	Rs-	Rs.	Rs.
A Proliminory Expenses	•••	411		10,771		19,771		
B.—Land	••	***		14 563	10,039	24,602		
CWorks		••		24,803	13,468	38,271		
LCarth-work	••	•••		1,46,755	29,128	1,75,680	Į	
OMiscellaneous	•••	••		37,176	237	37,413		
P.—Maintenanco	•••	119		1,162		1,162	İ	
	To	TIL		2,44,233	52.872	2,07,105	,	
Tors	l I.—wo	RKS		2,50,11,934	1,00,012	2 52,11,020	2,55,03,142	2,44,70,718
IL—ESTABLIS	HMENT		[
Direction	••• .	***		(a) 12,1 ,911	5,714	12,25,525		
G. EXECUTIVE	••	••		31,16,794	22,513	34,39,307	, [ł
7. MEDICAL	••	••		62,175		62,175	1	
S. SPECIAL SURVEY	•••	***	***			·	1	1
SJ. SPECIAL FIFED SURFEY	***	***	•••				Ì	
C. LEAVE AND PERSION ALLOWA					<i>'</i>	,		P
	Tota	ı. L		40,08,780	28,227	47,27,007	47,07,839	40,05,073
III.—TOOLS AND P		•		- 10(00)100			-	
9. Natioation Plant	434							
10. MILL PLANT	••							
11. RAILWAY PLANT AND ROLLIN		***	•••	15,000		15,000	,]	
		••	••	,	1,987	5,15,97		
12. Mischelaneous 13. Repairs and Carrioe	**	***	••	5,13,989	1,001		1	
	***	••	••	1,02,328	••	1,02,32	'l	
Loss by ezchange	,	••	••					0.00.000
	Tota	L	***	6,31,317	-1,087	6,33,30	7,18,225	6,38,848
IV.—BUSPENSE ACC	COUNT,						_	1
14. Stock	••	***	***	0,28,554	-1,24,876	5,03,57	1	1
15. STOCK PURCHASES	••	•••	••	18,114	16,671	-31,78	l	1
100. STOCK SALES	•••	***	•••	751	3,091	3,84		
16. MISCELLANEOUS ADVANCES	••	••	***	1,257	2,007	£,32	1 ,	
17. London Invoices	•••	••			i			
18. London Stores	••	••	••					
1	Tora	T,	••	0,12,151	-1,30,456	4,75,96	5	
GRAI	ATOT GR	T	••	3,00,51,532	92,770	3,10,47,30	2 3,10,79,600	2,97,15,23
v.—Less receipts on (CAPITAL	VCC01	UNT.	14,403		14,40	3 14,40	14,10
	Ner Tor	AL	•7•	3,09,40,129	92,770	3,10,32,89	3,10,65,10	3 2,97,00,S
Apportionme	ŊT.							
49.—Indication Works	••	- 819		3,00,25,710	92,770	3,10,18,49	S9 -	1
48.—M. W. and Natigation, In				14,410		11,41	. 1	l .

⁽a). Excludes share of accounts commencing from 1912-18.

OFFICE OF ACCOUNTANT-GENERAL. PUNJAB PROVINCE,

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16

Lower Chenab Canal Project.

No. 3+ REVENUE ACCOUNT FOR END TO END OF 1915-16.

		INERIAL.			Im	Perial.	
Regeirts.	Previous.	1915-16.	Total.	Onanges.	Previous.	1915-10.	Total.
			Rs.				
Occupiers' rates	Rs. 11,45,15,592	Re. 83,55,423	1	I A.—EXTEN·10X8 AXD ĮMPROVEMENTS	Rs	Ra.	Ra.
		{		L-Head Works	7,51,202	7,35,274	14,57,476
Owners' sales on irrigated land.	53,11,111	2,417	ñ8,13,82S	2.—Main Canal and Branches,	11,37,976	74,454	
	1			3Dietributanies :.	12,09 511	1 13,055	13,22,566
Salar of water	2,35,189	24,216	2,50,405	DRAINAGE AND PRO	67,517	57,725	1,25,272
	1	}	1	TOTAL I.A. "	31,60,235	9,80,508	41,18,743
Supply of Towns	8,201	· 5,18G	12,477	AND REPAIRS.			,
	1			1.—Head Works	16,90,383	1,16,964	17,07,347
Receipts from plantation	1,47,547	22,232	1,60,779	2.— MAIN 'CANAL ' ANI BRANCHES.	76,41,143	6,02,575	84,43,718
				3.—DISTRIBUTARIES	41,33,316	2,60,111	43,55,753
Receipts from other Canal	80,677 461		81,038	L-DRAINAGE WORES	50,503	15,967	66,170
Idoqn'es]	}	0.1000	TOTAL I.D	1,37,07,317	9,95,947	1,47,03,294
,	{			I.C.—COUPENSATION.	1,05,429	551	1,05,990
Water power	2,53,558	15,059	2,68,617	II.—ISTABLISHMENT	(a)	78,341	12,17,597
			1	5.—Eucutive Estad	62,08,933	4,65,670	86,72,652
Rent of Buildings	1,97,169	11,540	2,08,709	LISEMPNT. J.Medical Establish Lient.	3,38,231	23,436	3,56,667
Fines	30,667	1,217	31,914	7 A.—REVENUE ESTAT	75,75,176	(b) 5)19,250	80,94,426
.,		.,		Total	1,52,54,646	10,56,697	1,93,41,348
Miroellaneous and other Keceipts.	4,12,037	7,724	4,10,761	III—TOOIS & PLANT I Scie-tific Institute & Dray ing Materials	4 110	1,902	1,962
				2. Plant & Machinery. 3. Tools. 4. Nationation Phant.	•••	· '2,383 '6,755 613	•1 2,339 5,755 513
Total	12,17,22,035	8 ', (6,50°	13,01,70,545	7. Camp Roubaon 3. Live Stode 7. Office Functions		1,952 114 - 2,028	1,052 114 2,025
				Miscrilanous 9. Bi pair-& Carriage 10. Migh Prost	4,62,411 1,91,739' 5,809	5,720 37,700	4,66,131 2,29,118 5,809
Share of Lend Revenue collected in the Civil	3,21,49,011	50,80,190	2,90,32,431	II. RAILEAN PLANT & ROLLING STOCK. Total	7,11,008	50,152	7,70,160
Dopertment.		1		iv.—Recunds of	1,17,007	. 74:	1,17,754
		}		REVENUE.	3,30,64,672	31,20602	
Interest on sale proceeds or waste lands benefited	51,17,061 ²	6,01,100	60,18,651	indirect charges debit- ible to Rovenne Account as per Account No. 5.	21,38,674	1,52,136	22,91,012
Total	3,70,00,602	1 14,180	4,50,41,082	Total Charges	3,52,03,546	32,72,740	3,84,76,286
ŀ				Belauco, Not Revenue	12,40,85,091	1,26,50,247	13,67,35,111
TOTAL RECEIPTS	15,92,58,610	,57,20,PS7	17,52,11,627	GRAND TOTAL . ::	15,92,83,640	1,59,22,987	17,52,11,627

⁽a). Excludes share of accounts commencing from 1972-13. (b). Includes Rs. 2,47,928 on account of Lambardars fees for collection of Revenus.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16

Lower Chenab Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 19161-5

	Amount.		Amount.
Total Interest charges to end of 1914 15	1ks. 2,16,08,644	Net Revenue realised to end of 1914-15.	Rs. 12,40,85,094
Do. for the year 1915-16. Rq. Total outlay to end of 31st March 1010=3,19,32,890 Less half outlay during 1915-16 = 49,385		Do. during 1015-10	1,20,50,247
Mean Capital at charge =3,0°,30,511 Interest at por cent.	10,79,007		
Total	2,21,74,951		
Balance Revenue after defraying Interest charges	11,40,60,690	Tatal	13,67,85,841

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1015-16.

Particulars.				Previous.	1915-10.	Total.
Capital-ation of abatement of Land Revenue	<i>_</i>	'		Rs. 1,02,210	Re.	Ra. 1,92,219
Leave and Pension Allowances	••			6,57,710	3,952	6,61,662
		Total		7,50,920	3,052	7,63,631
REVENUE-			i			 ,
Capitalization of abatement of Land Rovenue	••	••	- **	3,225	••	3,225
Leave and Pension Allowance	••	••		21,35,640	1,52,138	22,87,787
•	Fotal	.,•	••	21,39,874	1,52,138	22,91,012

No. G-STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

	CHARGES AG	AINST GIOSI	D SANCTIONS.	Con	rent Sanci	IDNs.	Total charges to	
Particulars.	Expenditure agrinst Construction Estimate.	Expendi- turo against- open canal sonctions.	Total.	Charges to data.		Unspont Balanco of Estimato.	date ogainst old and current sametions.	'Revares.
•	Ra.	Ra,	Rs.	Re.	Rs.	Rs.	Rs.	R₁,
Direct Charges—				}		}	}	ATT
Works	1,99,23,202 .	45,47,613	2,44,70,715	7,40,311	11,22,727	3,92,110	2,62,11,020	G. I. $\frac{471}{15-1-15}$ = 4,03,153
EstablisIment	25,49,066	9,05,607	46,05,673	1,21,331	1,62,166-	40,832	47,27,097	Do. 630 I. = 1,75,752
Tools and Plant	. 5,92,825	40,923	G,38,818	5,534	79,377	81,021	6,33,301	Do. 1079 I. = 96,013
Suspenso Balancos	111 /41	249	***	4,70,905		4,75,905	4,75,965	Do $\frac{521 \text{ L}}{16434} = 1,72,701$
Total	2,41,55,093	55,69,143	2,97,15,236	13,32,000	13,54,270	32,204	3,10,17,302	
Less Roccipis on Capital Account.	14,403		14,403	•••	•••	.,	14,103	Do. $\frac{000 \text{ I.}}{\overline{0.1.14}} = 2,25,335$ Do. $\frac{1200 \text{ I.}}{21-25-5-11} = 1,18,607$
Net Total	2,41,41,699	55,511,143	2,97,00,833	13,32,006	13,61,270	32,294	3,10,32,890	Do. 55 I. = 90,191
Indinect Changes Capitalized abate- ment of Land Rovenue.	02,050	0,810	1,01,869	350	419	-350	,1,02,219	L.G. 018 W.I. = 13,572 L.G. 01878 W.I. = 11,105
Leave and Pension Allowances.	5,00, 4 90	1,35,185	6,44,675	16,087		—1 6 ,987	•	L.G. 1098 W.I. = 2,348
TOTAL	0,01,540	1 44,005	7,40,544	17,837		-17,337	7,03,881	$G_*I_*\frac{1110 I_*}{10\cdot 11\cdot 15} = 10,099$
GRAND TOTAL	2,47,43,230	67,04,138	3,04,47,377	13,40,103	13,04,270	14,807	3,17,96,780	Total 13,64,270

[&]quot;Assistant Accountant-General.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Sutlej Inundation Canal Project.

No. (2).—CAPITAL ACCOUNT FOR AND TO END OF 1915-16

			r	PIRFCT OBARCES.		Cost of Con- struction as	17
HEADS O	e Account.			Imperial,		now estimated (Construction Estimate	Expendium again-t closed Estimate.
,			Previous.	. 1915-16.	Total.	closed on 31st March.)	
I.—W	orks.		Rs.	Rs.	R	Rs.	Rs.
2. Main Canal and Bi A.—Preliminary Exp	DANCHES		3,549		3,849	۰ ۰.۰	- ,,
BLand	••		43,548 30,512	***	43,846 30,512	••	
D.—Regulators C .—Falls and Weirs	••• ! •••		60,015]	01,012		•••
G.—Bridges K.—Buildings	***	•••	52,492 2,11,987	•••	52,492 2,20,402		••
L.—Earth-work		••	5,52,555	9,215	5,52,355		24
O.—Mi-cellanoous	••	•••	5,112		5,112 2,157		••
P.—Maintenance	••		2,457		-,101		
	Tor	AL	9,70,927	9,215	9,90,132		••
DESTRISUTARIES-			0.040	,	3,842		
A.—Proliminary Ex	penses	•••	8,842 45,752		45,782	:::	P0
CWork .	••	***	82,930	•••	82,930		•••
L.—Earth work O.—Miscollancous	-	***	2,35,365 22,911	190	2,35,365 22,911	, ,,,	***
P.—Maintenanca	414	***	4,652	***	4,652	••	. ••
	Тот	ΔL	3,95,512		3,95,512	***	
Total	'i.—wori	8z	13,66,430	9,215	13,75,654	13,70,377	13,56,615
II.—ESTAI	BLISHMCN'	г.					
DIRECTION	444	***	51,547	341	64.968		, ···
. Executive	••	•••	2,35,983	1,289	2,87,272 2,953		h-a
. MEDICAL	•••	•• ••	2,933			<u> </u>	
	Тот	AL	2,93,483	1,630	2,95,113	2,98,594	2,92,003
III.—Tools	AND PLA	NT.			, ,		
636				,,,	24,566	}	
B. { Misculfaneous Repairs and Carria	QE .	•••	21,452 114	114	114		
	To	TAL	24,566	114	21,680	21,707	21,486
IV.—SUSPEN	ISE ACCOU	NT.			, •		
	- A					()	
14. Stock 15. Stock-Sales	•••	***	21,628	354	21,952	•	
6. MISCELLANEOUS ADV	ANCES	***	69	- 11	80		
	Ton	AL	21,698	365	22,063		
GI	SAND TOT		17,06,186	11,321	17,17,510	16,96,978	16,73,056
v.—LESS RECEIPTS O			156		, 156	. 158	156
	Ner To		17,06,030	11,324	17,17,354	16,96,822	16,72,900
				1			
APPORT	IONMENT.		1		t		
49 Industrian Works 43. M. W. and Naviga		COLAL	9,16,123 7,80,907	j1,324	9,27,447 7,89,907		1 ::

⁽a) Share of accounts excluded from 1912-13

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1015-10.

Upper Sutlej Inundation Canal Project.

No. 3- REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Imperia	Tr.			Inperial	, '
Recepts.	Provious.	1915-16.	Total.	Charges.	Provious.	1915-16.	Total.
	Ra.	R ₄ ,	Rs.	c. A—EXTENSIONS AND	Rs.	Rs.	Rg.
Occupiers' rato	70, [8,210	4 ,60,902	81,15,11	IMPROVEMENTS. 2. MAIN CANAL AND BRANCHES	4,06,21	5 14,398	4,20,55
Owners' rotes on irrigated Lund.	17,732		17,7 3	3.—Distributalits	1,05,09. 1,15	1 1	1,74,135
Fales of water	3,030	Ş)	ეეივი	Total I. A I B. MANTENANCHAND REPAIRS.	5,76,39	19,746	5,06,143
Recaipts from Plantations	1,20,322	4,822	1,21,718	1.—Hran Would 2.—Mray Canal and Branches.	10,375 45,92,639	1,75,801	10,379 47,68,593
Receipts from other Canal	71,050	591	75,2°()	3.—Distributables	8;44;720 F4,47,501		8,70,229 56,58,201
produco.			•	I.C.—COMPENSATION II.—ESTABLI. HMENT.	8,005		8,605
Rent of Buildings	4,512	1,117	5,689	5.—DIRECTION AND AC- COUNT.	(a) 0,42,115		6,95,311
Fines .:	5,21,060	126	2,25,081	6.—Executive Establish- in htt. 7.—Mi dical Do. ,.	21,31,227 37,418	1,621	22,05,762 39,039
Miscollaneous and other Receipts.	17,163	5,972	23,{11;	7 A.—Revenue Do, Total HI.—TOOLS AND PLANT	12,56,515 41,10,575		13,22,460 42,65,608
Contribution ,	22,536	••	22,53:	L—Sch nyffighetrenent 3.—Tools	••	222 818	818 313
Total	81,33,752	4,79,140	69,12,022	i.—Navigation Plant 5.—Camp Equipage Miccellabious	916 •• 46,414	40	916 40 46,216
Share of Land Revenue-col lected in the Civil Depart- ment.	72,33,217	2,61,780	7 1,0 5,006	7.—Office Furnitury ² .—Repairs and Carriage	23,521 71,951 25,500	1,222 2,828	694 23,746 74,682
Interest on sale-proceeds of waste lands benefited.	78,361	5,608	81,032	NUE. V.—PROUIT AND LOSS	370	9.85.008	25,504
				Indirect Charges debitable to Revenue Account as per Account No. 5.	C, 14, 59 b	:1,701	6,66,300
Total	73,11,581	2,97,057	75,78,934	TOTAL CHARGES	1,05,95,800		1,12,05,602
Total Recuipty	1,57,45,363 7	,10,197	1,61,01,760	Ralance, Not Revenue GRAND TOTAL	45,50,563 1,57,15,363		1,61,01,500

⁽a). Share of accounts excluded from 1912-13.
(b). Included 184, 12,722 on account of fees for collection of Revenue.

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Sutlej Hnundation Project.

No. 4.-INTEREST ACCOUNT FOR AND TO END OF 1915-16.

,	Amount.	,	Amount.
Total interest charges to end of 1914-15 Do. for the year 1915-16 Total outlay to 31st March 1916 Less holf outlay during 1915-16 p. 5562	Rs 21,07,093	Net Revenue reelized to end of 1914-15 Do. during 1915-16	Rs. 48,54,563 3,30,395
Mean copitol at charge ,, 17,11,692 Interest at 3.4725 per cent	59,438	•	,
Total Interest charges	21,66,535	•	
Baiance Revenue after defraying Interest charges	30,29,427	·	
. Total	\$1,95,956	Total	51,05,968

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Pa	rticulars.					Previous.	1915-16.	Total.
Capitalization of obatement of Land Leave and Pension Allowances	Rovenuo	••	, ::	::	::	Rs. 57,0°3 42,706	'R ₃ 50 228	Rs. 58,033 42,004
•	3		Total	••	•1	- 1,00,749	276	1,01,027
REVENUE— Capitalization abatement of Loud Re Leave and Pension Allowances	evenuo ••	••	 Total	••	::	10,648 6,33,948 6,44,596	21,704	10,649 6,55,652 6,68,300

No. 6-STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

	-	eanctions.	CLOSED	Core	ent Sanct	ions,	Total charges to	Ţ	genībes.	
Particulars.	Exponde- turo against Construc- tion Estimato	Expendi- ture against open canal sonctions.	Totol.	Charges to dato.	Amount of Sauctioned Estimete,	Bolance of	dato against old ond current sanctions.	Authority.	No. & Dato.	Amount.
Direct Charges-	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	. Rs.			Rs.
Works	10,07,761	3,48,854	13,56,616	19,039	19,762	723	13,75,651	nch.	W. L. 0966,	3,140
· Estoblishment	2,24,759	67,240	2,02,000	3,108	3,889	781	2,95,113	Bra	8-8-14	1
Tools and Plont	20,008	4,368	24,130	241	271	27	24,680	ation	W. I. 0205 dated	2,858
Suspense Balances	- 4.		••	22,003		-23,068	22,063	Irrig	8-6-15	
Total	12,52,598	4,20,468	16,72,050	44,454	23,922	-20,633	17,17,510	W. D.,	, ,	
Less Receipts on Copital Account.	150	••	156	•••	**1		, 156	'n,	W. 1. 056; dated ; 7-7-15	2,858
Net Total	12,52,432	4,20,469	16,72,900	44,154	23,92	_20,53	17,17,354	Govornment, Punjeb,		•
Indirect Charges-								ovorna		
Capitalized abstement of Land Revenue.	53,691	4,352	58,033				68,033	. 3	W.I. 01020 dated 4-8-14	15,057
Leave and Pension Al- lowences.	33,148	0,411	42,550	430	••	-48	, 42,994	Socratary		,
		<u> </u>						. "	1	
Total	86,820	13,763	1,00,592	431		-488	1,01,027			23,022
GRAND TOTAL	13,39,261	4,34,231	17,73,402	41,880	23,929	20,967	18,18,381			23,922

ADMINISTRATIVE ACCOUNTS FOR 1915-16.

Sidhnai Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-15;

				. ;	DIRECT CHANGE	E6.	Cost of con- struction as	
	Head of Acc	ofx t			Imperials.		now estimated (Construction	Expendituro against closed Estimates.
				Provious.	1915-16.	Total.	Estimato blosed on 31st March 1915).	Estimates.
_	i.—Work	cs,		Rs.	Rav	Rs.	E4.	Rs.
1,	HEAD WORKS-			_			4	•
	A.—Preliminary Expenses		•	. 754	***	754	,	
	B.—Land	••	**	235	844	235		
	C.—Works	••	••	2,46,260	••	2,46,260		ı
	K:-Buildings	*1 ·	••	11,646	••	11,646		
	O,—Miscollaneous	**	••	301		301	,	i.
		Toric	••	2,50,290		2,50,280		
2	MAIN CANAL AND BRINGS	E9					•	
	A:Preliminary Exponse	es	••	6,014	***	6,014		3
	B.—Land	·		- 22,422	••-	22,423		1
	D.—Regulators	••	••	40,508	••	40)568)
	G.—Bridges	••	••	41,980	411	41,980		
	K.—Buildings	. **	••	80,780	474	60,780		ì
	L.—Larth-work	••		2,58,900	119	2,58,006		
	M.—Plantations	•••		821	***	821		;
	O.—Miscellaneous	.;;·	• ••	427	*** ,	427		
	P.—Maintenance	•••	••	5,391	***	5,304		-
	**************************************	Totali	••	4,67,111		4,67 411		
2,	Distributaries—							
	A.—Proliminary Exponse	:S ••	••	8,965	***	3,905	ļ.	
	B.—Land	·	••	11,367	***	11,387.		,
	C.—Works	; .		CG,022		06,622		,
	L.—Earth-work	*	••	1,36,784	614	1,36,785,		,
	O.—Miscollancous		***	165	•••	, 105-	1	'
	. (1)	TOTAL	***	2,18,022	٠,,,,,,,	2,18,923		

ADMINISTRATIVE ACCOUNTS FOR 1915-16.

Sidhna? Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

1		. 0	IREGT CHARGES		Cost of con- struction as	
HEAD OF ACCOUNT.			Imperial.		naw ostimated (Construction Estimate	Expendituro against closes Estimates.
		Previous.	1915-16.	Total.	closed an 31st March 1915).	Estimutes.
4. Drainage and Protective Works-	-	Rs.	Rs.	Rs,	Rg.	Rs.
△.—Preliminary Expenses		. \$6	•••	36		
Total	4	36	000	_ 36		
Total L—WORKS		9,45,656	*** ;	9,45,656	9,45,650	9,45,656
II.—ESTABLISHMENT.				,		•
5. Direction		40,445 (a)	•••	40,145 (a)	ı	
6. EXECUTIVE		2,14,711	***	2,14,741		
Total		2,64,186	110	2,64,186	2,64,186	. 2,61,186
III.—Tools and plant	Ì			,		
12.—Miecellaneous		} zs,030		28,030	; (;)	
13.—Repairs and Carriage		5	••	: .		
Torac		35,039	110	23,030	38,03D	38,039
iv.—suspense account.			,	47		,
14. Stock Purchases		28	74	-102		:
15a. Stock Sales		50	_15	, 35	٠.	
16. Miscellaneous Advances		ρ2	94	186		
17. Stock	•••	43,039	<u>971</u>	42,968		
Total .		44,053	966	42,057		
GRAND TOTAL	,	12,91,934	-966	12,90,968	12,47,881	12,47,881
V.—Less receipts on capital acco	TRU	223	107	221	224	224
NET TOTAL		12,91,710	-966	12,90,744	12,47,057	12,47,657
APPORTIONMENT.			•	.,	<u> </u>	<u> </u>
49.—Ibrigation Wobes		12,73, 401	966	12,72,438		,
43.—M. W. AND NAVIGATION, THEFERIAL PROVINCIAL	-	18,308	•••	18,308		

⁽a). Excluding share of accounts commencing from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Sidhnai Canal Project.

No. 8.—REVENUE ACCOUNT FOR AND TO END OF 1816-16.

' <u></u>		_ •					
		Imperia:	L,		1	MPFRIAL.	
Receipts.	Provious.	1915-16.	Total,	Charges.	Previous	1916-16.	Total.
	Ra.	R9.	Rs.	I.A.—EXTENSIONS AN IMPROVEMENTS.	p Rs	-	R
Occupiors' rates	81,13,919	6,10,686	90,30,0		27,0	, , , ,	1
				2-Main Canal and Branches, 3,-Distributaries	72,00	1 7	1 ''
Fales of water	38,853	3,578	42,6	31 4-Drawier and Pro Teltile Works.	1 '	1	60
				TOTAL I. A.	2,67,66	10,510	2,78,18
Receipts from Plantations	5,340	390	5,79	ID,—MAINTENANCE AND REPAIRS.			
				1.—HEAD WORKS	0,20,00	1 ','	
Receipts from other Canal	8,50°	277	8.78	2—Maiy Canal and Branches. 6 3.—Distributativs	0,13,10	1	
/ produce.			4,10	TOTAL J. B		-	
				I.O.—COMPENSATION	23	-	231
Rent of Buildings	18,451	251	18,73	II.—ESTABLISHMENT.			
		1		5-DIRECTION AND AC-	1,40,20	5,183	1,45,47
Fines	6,700			6.—Evecutive Establish-	-7,40,110	1	7,86,580
Pincs	0,100	621	7,32	7.—Medical Establish bient. 7 A.—Revende Establish	15,926	(6)	1
A1 g1	.	1		MLNT. Total	11,71,055	35,001	
Miscellaneous and other Receipts.	11,655	1,808	13,693	III.—TOOLS AND PLANT		70,145	15,50,210
	. [1.—Scientific and Draw- ing Materials 2.—Plant and Machinery		298	298
Total	E5,03,696 (.23.500	91,27,196	3.—Tools	111	• 218	218
-				4.—Navioation Plant	,,,	401	461
, ,	•			б.—Саме Единабе	***		
Share of Land Rovenue .	· 14,29,951 1	28 204	16,18,175	C.—Live Stock			***
collected in the Civil Dopartment.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10,10,210	7.—Office Funtione	. 1	250	280
		,		8.—Reference and Carriage	28,863	1,200	30,162
	1			12.—Miscellaneous	21,636	205	21,944
Interest on sale-proceeds of	3,00,050	20,805	2 91 70 (TOTAL IV.—REFUNDS OF	50,409		53,263
naste lands benofited.	5,00,000	20,00.1	914T101	REVENUE.	1,240	350	1,596
				CAL	31,95,731	1,35,837	36,31,568
Total	17 9/1010 -	00.000	10 (2	Indirect Charges debitable to Revenue Account as per Account No. 5.	2,06,209	11,105	2,17,311
	17,80,010 2,	,00,328	10,40,230	TOTAL CHARGES	37,01,910	1,46,942	38,48,882
Pomis Programs				Balanco Net Révonue	65,32,666	6,86,187	72,18,853
TOTAL RECEIPTS	1,02,34,096 8,	33,129	1,10,07,735	GRAND TOTAL	1,02,34,606	8,33,129	1,10,67,735

⁽a). Share of Accounts evoluted from 1912-13.
(b). Includes Rs. 5,898 on account of fees for collection of Revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

" Sidhnai Canal Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1915-16.

	Amount	•	Amount.
	Rs.	•	Rs.
Total Interest charges to end of 1014-15 Do. for the year 1015-10 Total outlay up to 31st March 1010 =Rs. 12,00,744 Less half outlay during 1015-10 = , —183	12,40,495	Not Revonue realized to end of 1914-15 . Do. during 1915-16 .	65,32,666 6,80,187
Mean Capital at chargo = 1, 12,01,227 Interest at 3:4725 per cent	44,838		1
Balance Revenue after defraying Interest charges	12,85,333 59,33,520		
Total	72,18,503	Tolal .	72,18,853

No. 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Papticulars.	•				Provious.	1015-16	Total.
Capital-		·	 		Re-	Rs:	Rs.
Capitalization of abatement of Land Revenue	••	••	••	**	3,328	•••	3,329
Leave and Pension Allowances	44.	••	••	130	36,884		30,589
			Total	•••	40,217	•••	40,517
Revisoe—	•						•
Capitalization abatement of Land Revenue	310	•,	***	•••	260	25	295
Leave and Pension Allowances	+».	•••	• •.	**.	2,05,040	11,080	2,17,029
			Total	***	2,06,200	• 11,105	2,17,314
,	•	Gnin	D Total	1	2,46,426	1,105	2,57,531

No 6-STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

	Спанова	GAINST CLO TION+.	CD SING.	Cnu	TERT SANC	ions,	Total charges to	
Particulals.	Expendi- ting ngainst Construc- tion. Estimate.	Expendi- turo against open cumb ranctions.	Total.	Charges to date.	Amount of Sanctioned Equipmeter	Balance of	date igain it old and current sanction.	Remares.
DIRECT CHARGES-	Rs.	Rs.	Ra.	Re.	Rs.	Ra.	Rz.	•
Works	7,01,501	2,41,452	0,45,656	,,,,		•••	0,45,656	
Litablishment	2,04,803	69,85 3	2,61,180				2,64,181	. `
Tools and Plant	22,553	15,786	35,030	***		1 1 1	38,031	
Suspenso Balanco	••	•••	100	43,057		-47,087	43,037	
TOTAL	2,29,260	3,19,621	12,47,551	43,087		-13,787	12,90,968	
Less Receipts on Capital Account.	214	111	224	••			224	
NET TOTAL	1.28,036	3,19,621	12,47,05	40,097		-13,087	12,90,741	
INDIRECT CHARGE:-								
Capitalized abatement of Land Revenue—	2,094	📆	3,326		111	***	3,325	
Leave and Pension Allem-	28,576	8,315	35,550	•• :	149	110'	. 36,680	
Total	31,570	8,617	40,217				40,217	· .
GEAND TOTAL	0,59,006	3,28,268	12,87,674	43,057	•••	· —43,057	13,30,961	

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Jhelum Canal Project.

· No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

1	1	Direct Charg	<u> </u>		
Heads of Account.		Imperial.		Cost of construction as now	Expenditure against closed
	Previous.	915-16.	Total.	estimated.	Estimates,
I.—WORK.	Rs.	Rs.	Rs.	Rs.	Re.
I—Head Works—					
A.—Proliminary Expenses	12,619		12,619		
B.—Land	31,772	j	31,772		
C.—Works	****	••	29,70,571		
K.—Buildings	1,28,978		1,28,978		
OMiscellaneous	19,273		19,273		
P.—Maintenanco	28,020		28,020		
Total	21,01,233		31,91,233		
2.—Main Canal and Branches—					
AProliminary Exponsos	3,280	••	98,230		
B.—Land	2,49,781	••	2,49,781		
D.—Regulators	2,71,286		2,71,286		
E-Falls and Welrs	2,71,017		2,34,047		
F.(1). Other Cross Drainage Works	1,20,258	.01	1,20,258		
G.—Bridges	0,91,284	••	6,91,281	j	
· H.—Escapes	4,78,510		4,7R,540	ļ	
J.—Hills	1,07,620	141	1,07,620		
K.—Buildings	10,13,162	17,386	10,30,547		
L.—Earth-work	27,93,007	••	22,93,007		
M.—Plantations	86,170	674	. 86,179]	
O.—Miscollaneous	45,133	101	45,624		
P,—Maintonanco	52,773	••	32,373		
TOTAL	67,17,100	17,578	57,81,676	-	-
3.—Distributaries—					
A.—Preliminary Expenses	61,108	7	61,101	ļ	
BLind	1,48,709		1,46,709		
C.—Works	15,26,200	258	15,26,458	1	
L.—Earth-work	13,37,875		13,37,875		
O.—Miscellaneous	5,50,500	-80	5,59,711	· ·	
P.—Maiatenanco	4,053	. ••	4,663		
Total	30,70,355	102	36,30,517		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 4915-16.

Lower Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

		•			Dr	BROT CHARGE	s. ·		
Hz	ad of Ace	OUNT,				Imperial.		Cost of construction as now estimated.	apenditum against closed Estimates.
•					Provious.	1915-16	Total.	osimuteg.	Estimates,
1.—DRAINAGE AND PRO	TECTIVE '	Works			Rs.	Rs.	Rs.	Rs.	Rg.
A.—Prelimiosiy Ex		WONES.	_		21,356		01 010		
B.—Laod			,		13,638		21,356 13,638	,	5
O.—Works	441	•••	414		2,884		2,884		
L.—Eurth-work	•••		· •••	••	52,353	-	52,353		
O.—Miscellanco.13				••	1,779		1,759		•
•		•	TOTAL	•••	91,900		01,990	<u>'</u>	
		ar I —W	orks.		1,25,36,678	17,738	1,26,54,416	1,48,95,807	
	٥								
11.—E	ST ABLIS	ement.	• `		,				
5.—Direction		***	••	٠	6,00,764	750	6,01,514		
6.—Executive	••	• •	••		15,10,533	2,833	15,13,366		
7.—MEDICAL	•••	***	***	•••	29,033		29,633	,	
8.—Special Survey	***	***	440	•••	42,062	***	42,062	<i></i>	
			Total	•••	21,82,902	3,583	21,86,575	29,30,260	
				j	-	•	•		
III.—T(OOLS AN	D PLAN	T.			_			
NAVIGATION PLANT	•••	•••	••	***	50		80		.`
12.—Miscellaneous	,	••	***		2,99,791	250	3,00,041	,	
13.—Repairs and Care	RIAGE	•••	•••	•••	62,566	·	62,566	,	
t			TOTAL	•••	3,62,407	250	3,12,657	4,20,715	- ,
· ·				į					 -
IV—SU	spanse	ACCOU	NT.	,		,	. , ,		
14.—Stock		•••		•••	4,19,191	6,638	4,12,653		
15.—Stock Purchases		•••	•••		2,533	315	2,218	٠,	
5aStock Sales	***	•••	••	•••	99	04	5		
6.—Miscellaneous Ai	VANCES		••		3,984	<u></u> 869	3,115		
18.—London Stores	•••		***	•••	612	-612			
•	**		TOTAL	•••	4,21,353	— , 898	4 13,455	2,00,000	' '
	. G	RAND T	OTAL.	***	1,56,03,430	. 13,673		1,84,55,782	
V.—LESS RECEIPTS	ON CAPI	TAL AC	TRUOC		40,462	1	40,462	60,000	
		Net	TOTAL	••	1,57,62,968	13,673	1,65,76,641	1,83,95,782	
APP	ORTION	MENT.			1 '		•		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Jhelum Canal Project.

No. 2,-REVENUE ACCOUNT FOR AND TO END OF 1915-16.

,		Imperial.		·		Imperial.	
Receives.	Provious.	1915-16.	Total.	Спансев.	Provious.	1915-16.	Total.
And the second s	, Rs.	Rs,	Rs.		Re.	Rs.	Rs.
Occupions' rates	2,07,30,121	25,80,563	2,35,10,687	i. a.—Extensions and improvements.			
Balon of water	81.897	14,912	408 80	1.—HEAD WORKS 2 —MAIN CANAL AND	4,43,651 1,67,030	6, 3 70 7,161	4,49,011 1,75,091
Supply of towns	?,476	57e	4,053	BRANCHRS. 3DISTRIBUTARIES 4DRAY COR AND PRO-	2,22,1'19 3,858	9,560 129	2,31,679 3,987
Receipts from Plantations	20,795	7,851	28,580	TOTAL I. A	P,37,558	22,220	8,59,778
Receipts from other Canal produce.	8,05?	162	0,116	I B.—MAINTENANCE AND REPAIRS.	•		
i dina producti				li-HPAD Works	8,09,578	17,933	6,26,561 18,76,108
Water power	1,26,237	30, 267	1,56,504	2.—MAIN CANAL AND BRANCHES. 3.—DISTRIBUTARIES. 4.—DRAINAGE AND PRO-	17,54,603 15,06,440 62,477		15,70,108 17,00,352 65,834
Ront of Buildings	81,44B	1,563	87,011	TOTAL I. B	40,22,197	2,46,658	42,08,855
Finos	10,053	771	10,924	I. C.—COMPENSATION II.—KSTABLISHMENT.	5,218	629	5,847
Miscellaneous and other	93,352	0.550		5DIRECTION AND Ac-	4,01,048	0,738	4,50,780
Receipts.	20,000	-,	1,02,901	COUNT. 6.—Executive Establish. NENT.	17,11,121	2,03,211	19,14,332
				7-Medical Do	1,07,136 10,78,663	(a) 10,528 1,98,781	1,17,664 21,77,444
Total	2, 11,66,275	26,50,220	2,38,06,495	Total	41,97 969	4,02,258	40,60,226
Share of Land Revenue collected-in- the -Civil	64,62,101	14,00,445	78,08,631	I.—Scientific Instruments and Drawing Materials.		1,139	1,139
Department.				2.—PLANT AND MACHINERY		135	138
Interest on sale proceeds of wasto lands benefited	5,84,562	\$5,898	6,50,460	5.—Tools 5.—Camp Equipades 6.—Live Stock 7.—Office Funniture Miscellanfoys Refairs and Carriage	38,92° 80,131	2,191 45 70 1,634 7,256 8,903	2,121 45 70 1,634 46,176 89,034
				Total	1,19,051	21,303	1,40,354
i				IV.—REFUNDS OF REVENUE VENUE V.—PROFIT AND LOSS	0,033	780	9,613
	•			Totas	91,91,025	7,53,948	99,44,873
•				Indirect Charges debitable to Revenue Account as per Account No. 5.	7,88,516	61,791	6,58,307
Total	· 70,46,756	14,72,343	85,10,090		97,70,541	8,18,630	1,05,98,180
	1			Balanco, Not Revenue	1,84,23,400	38,03,924	2,17,27,414
Total Reseipts	2,82,03,031	41,22,563	3,23,25,504	GRAND TOTAL	2,82,03,031	41,22,563	3,23,25,504

⁽a). Includes Rs. 74,023 on account of fees for collection of Revenue. (b). Excludes share of account commencing from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Jhelum Canai Project.

No. 4.-INTEREST ACCOUNT FOR AND TO END OF 1815-16.

	Amount.			Amount.
Total Interest charges to end of 1914-15 De. for the year 1915-16 Rs. Total outlay to end of 31st March 1916. Deduct helf outlay during 1915-16 0,83		Net Revenue realised to end of 1914-15 Do. during 1918-16	***	Rs, 1,84,23,490 33,03,924
Mean Capital at charge 1,55,69,80: Interest at 3:4725 per cont	5,40,661			
Total	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Balance Revenue after defraying Interest charg Total	0 17 07 414	Total		2,17,27,414

No. 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-18.

Particulars.		Provious.	1915-16.	Total.	
CAPITAL-		Rs.	Rs.	Rs,	
Capitelization of abatement of Lend Revenue		82,875	125	83,000	
Leave and Pension Allowances	. }	3,05,610	502	3,06,121	
Total		3,88,494	627	3,89,121	
Revenue-				······	
Capitalization of abatement of Land Revenue		800	75	875	
Leave and Pension Allowances		-5,87,716	64,716	6,52,432	
Total *	,	5,88,516	64,701	6,53,307	
Grand Total		9,77,010	,41R	10,42,428	

No. 6 .- STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

			er Adainst Banctions.	GLOSED	Con	ENT BANCI	ions.	Total charges to	
PARTICULARS.	against Construc-	Expendi- turo against open canal anctions.	Total	Charges to daté.	-nnotioned	Unspent Balance of Estimate.	date against old and current sanctions	Remarks.	
DIRECT CHARGES-					Rs.	Rs.	Rs.	Rs.	
Works	••				1,20,54,116	1,48,95,807	-22, 1 1,391	1,26,54;416	
Fstablishment	•••			ĺ	21,86,575	29,30,260	, 7,13,685	21,86,575	
Tools and Plant					3,62,857	4,29,715	67,058	3,02,657	
Suspense Balances	•••			•	4,13,455	2,00,000	-2, 3,455	4,13,455	
Total					1,50,17,103	1,84,55,782	28,38,679	1,56,17,103	
LESS RECEIPTS ON CAPIT ACCOUNT.	AL				40,462		,538	40,462	
Net Total				'	1,55,76,641	(a) 1,93,95,782	28;19,14:	1,55,76,441	
INDIRECT CHARGES-			•						
Capitalized abatement	of		•		83,000	1,57,863	7 ,863	83,000	-
Leave and Pension Allows	1009	1			3,06,121	4,10,343	1,04,222	8,06,121	
Tota		۱. ا	د ،	,	3,80,121	(6) 5, 68,208	1,70,085	3,88,121	
GRAND TOTAL				••	1,59,65,762	1,89,63,988	29,9%226	1,59,65,762	

⁽a) Includes Rs. 2,05,933 actual direct expenditure on Shahpur Imperial Canal.
(b) Includes Rs. 998 on account of indirect expanditure on Shahpur Imperial Canal.
Both the above will be transforred to the debit of this project on completion of the Shahpur Branch of the Lower Jhelum Canal, vide Sacretary, P. W. D. Irrigation Branch, Punjab's No. 035-A. I., dated ith June 1905.
(c) Revised Project estimate sanctioned in Secretary of Stete's despetch No. 5, dated 10th February 1905.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Indus Inundation Canals Project.

No. 2.- CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

			1	DIRECT CHARGE		Cost of con-	1
Heads of Acc	OUNT.			Imperial.		struction as now estimated (Construction	Expenditur against
			Fravious.	1815-16.	Total.	Estimate closed on 31st March 1804).	closed Estimates.
1,—WORE	s.						
MAIN CANAL AND BEANCHS	·s					1	
.1 —Proliminary Expenses	/	• ••	ט ^ו ים)		. 9,321		
B1 and	••	••	40,187	· .	40,187		
D-Regulators	••	••	73,502	3,403	77,205		
E-Telland Worr	••	•4	35,141	1,270	81,956		
FRiver and Hill Torrent	. Worl 1	••	₹00		402		
o −Bridges	••	••	190,:3	2,800	40,071		
H.—E_capes , .:	11	••	1 4,021		14,031		
K.—Buildings	•	••	1,10,531	8,513	1,40,097		
L.—Parth-work	••		12,50,190	00,492	13,52,652		
eucoralisseiM0	••	٠.,	20,228	2,351	. 21,571		
	Total		16,43,507	1,14,910	17,58,428		
Decreased		*					
A.—Proliminary Expenses	, *		3,087		3,0 87	,	
	* 64	*	86,426	1,781	38,157		
B.—Lend		"	59,811	5,792	04,603		
C.—Works	10	"	1,81,526	8,700	1,00,316		
L.—Earth work	••	"	8,530		6,536		
O,-Miscellancous,	**				1-01	.	
		-		e za la d as			
	Totaj		2,80,250	·3. 10,813	3,05,500	,	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Indus Inundation Canals Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1916-16.

			· Dr	RLCT CHARGES.			
· · · · · · · · · · · · · · · · · · ·				Imperial.		Cost of con- struction as now estimated (Construction	Expenditure
Heads or Accoun	ST.		Previous.	1915-16.	Total,	Estimato closed un 31st March 1894.)	ngainst closed Estimates,
The same of the sa	/anga		\$		•		
4. DRAINAGE AND PROTECTIVE W K.—Buildings	••		1,613		1,613		
L.—Larth-work	·· ,		3, 10,078		0,40,078		
·	Тстац		3,41,691		3,41,691		
Total I.—	-works		22,77,481	1,31,232	" 24,0°,710		7,50,12
•							
11—ESTABLISHUD	XT.						
5 DIRECTION AND ACCOUNT	••	•••	1,00,304	(a) 5,362	1,11 726).
6. Executive	•• .	••	3,25,835	20,256	3,16,031		
7. MEDICAL	••	••	6,77	••	567		,
•	Total	••	4,32,586	27,618	4,58,38	4,72,473	1,13,11
ma ord rain no						:	
m.—Tools and pl	ANT.						
12. Miscillandous	••	••	20,240	1,757	25,033] ~),
13. Rupairs and Carriage	••	••	3				
	TOTAL	••	23,216	1,787	25,033	31,05	2,3
IV.—SUSPENSE ACC	COUNT.					1	
14. STOCK	••	••	74,287	—P,592	61,692		
16. Miscellaneous Advances		••	1,806	-1,658	108		
18. LOYDON STORES		••		·	۲.	,	
					· .		-
مالانة د مجروم	Total	**	75,093	, —11,250	61,513		9,01,0
GRANI V. <i>Less</i> Receipts on capit	TOTAL	··	23,00,560	1,47.357	29;56,976 63,616	<u>}`</u>	
	al accou. Py Total	, T.Y.T.	63,616 27,45,973	1,47,587	28,93,350	[
		••					}
APPORTIONMEN	T.	•	1 00 00 100				
40.—Irrigation Works	••		20,23,160	1,17,387	21,70,81		
43M. W. AND NAVIGATION, IMP	ERIAL		7,22,513	••	7,22,51		

⁽c) Share of account excluded from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Indus Inundation Canals Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Імреніац.				Ixperiag.	
<u> Кросп</u> ета.	Provious.	1915-16.	Total.	Charoes,	Provious,	1916-16.	Total.
	Rs.	Rs.	Rs.	1	Rs.	Ra.	Ra.
Occupiera' ratea · • •	20,64,673	1,35,691	22,00,301	(I.A)—İXTENSIONS. AND IMPROVEMENIS			
Owners' rates on irrigated	p2,189		93,169	2-Mary Canal And Brancing	0,62,300	69,000	10,22,450
land.			Ì	8—DRITHLETARIES 4—DRAIN OF AND PRO- TECTIVE WORLS.	69,127 8,39,217	2,466 13,668	69,593 8,9?,886
Enlos of water	880 ₁ 0	08	5, 786				
Supply of towns	1,118		1,118	Total I.A [LB,-MAINTENANCE]	18,67,734	1,17,195	10,84,920
			·	AND REPAIRS.	·		
Recoipts from Plantation	1,23,475	2,657	1,26,332	2-Main Capal and Branches.	63,78,499	1,87,702	65,16,251
Govt. sbara of Dhundi Produco,	10,01,000	£6,178	10,50,787	S-Distributaries	2,83,410 9,89,819	12,048	2,06,367 10,31,822
•				Total I.B.	76,51,737	1,95,703	78,47,449
Receipts from other Cenal Produce.	4,216	20	4 ¹ 330	I C.—COMPENSATION. II—ESTABLISHMENT	5,733	438	6,171
Rent of Buildings	,			5—Direction and	(a)6,02,050	12,924	8,14,983
,	1			6—Executive Establish-	23,75,792	66 868	24,42,680
Fines	\$. 02,170	2,012	01,142	7—Medical Catablish- nint.	28,753	3,939	30,722
Miscolleneous and other receipts.	}.	·		7A.—Revenue Patablian. Ment. 7G.—Plantation Estad.	6,93,045 6,046	(6) 27,966 	6,62,511 6,916
Total	83,58,539	1,67,116	35,45,671	Total	38,16,226	1,10,617	39,50,512
,				1-Scientific Innier-			
Contribution of Silt Clearance,	4,15,931	·	4,18,934	ments and Dhaw- ing Materials 2—Piant and Machin-	144	, ci	81
				TRY. 3.—TOOLS	313	210	219
Clearence Rate	12,70,603		12,79,655	1—Navidation Plant 5—Pamp Equipage	***	211	313 211
		<u> </u>		7-Order: Forettere 6-Repairs and Carri-	•••	291	294
Total	50,67,075	1,87,116	62,14,193	Medicitanica	32,000 58,300	1,070	33,169 37,674
• .				Total .,	70,801	1,370	72,171
Share of Land Revenue collected in the Depart- ment.		2,50,225	1,04,88,185	IV-REFUNDS OF REVENUE	6,703	168	4,971
Interest on sale-proceeds	38	9	40	VPROFIT AND LOSS	<u></u>	\ <u>'</u>	1,509
of wasto lands benefited	{		•	TOTAL	1,31,48,512	4,25,191	1,39,71,02
Total	3 fps 97 ftfff	2,50,227	1,0100,105	Indirect Charges debitable to Réseaue Account as per Account No. 5.	6,42,281	16,261	G,58,51
10181	1,02,37,008	2,00,221	1,01,88,195	TOTAL CHARGES	1,40 90,613	4,41,752	1,16,32,60
Total Receipts	1,52,95,045	4,37,843	1,57,32,388	Balance, Not Revenue	12,01,232	_	11,92,52
		, ,,,,,,,,,	1.10.1.20	GRAND TOTAL	1,52,93,013	4,37,343	1,57,32,38

⁽c) Sharo of account excluded from 1912-13.
(b) Includes Its. Call on account of fees for collection of Revenue,

PUNJAB PROVINCE.

OFFICE OF ACCOUNTANT GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Indus Inundation Canals Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1915-10.

,		Amount.	·	Amount.
Total Interest charges to end of 1914-15	•••	Ks. 18,42,770	Net Revenue realized to end of 1914-15 Do. during 1915-16	Rs 12,01,232
Total outlay to 31st March 1916=Rs. 28,93,360	••		Balanco net Interest charges	4,409 7,40,866
Less half ontlay during 1915-10= ,, 73,633 Mean capital at charge = ,, 28,12,667				
Interest at 3.4723 per cont	••	07,013		
Total		10,40,480	Total	19,10,050

No. 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

l'articulars					Proviou	1015.1c.	Total.
Calital—					R3.	R3.	Ωs.
Cepitalization of abatement of Land Revenue	•••	••	***	••,	e,257	50	£,307
Leave rad Pension Allowances ,	••	••	***	***	08,052	8,567	71,639
	•	Total	***	1.,	76,300	Py687	78,916
Ill vence—					•	,	,
Capitalization of abstement of Land Revenus	••	•••	•••		22,033	775	23,403
Leave and Per ion Allowances	•••	••	•••	•••	1,19,645	. 45,496	C,35,131
		Total	* *		6,12,281	16,261	1,58,512
•	Gnv	D TOTAL	4+4		7,18,500	19,908	7,38,488

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

	Cilarg	TERIADA PE PAGISSAB	cro-Ep	Cun	LPPT BANCT	none.	Total	
Panticelars.	Expandi- ture ngainst Construe tion Estimate	Expendi- ture ngainst eren canal sarctions.	Total,	Charges to date.		Unspent Balanco of Estimate.	charges to date regainst old and current anactions	BRILING.
DIRECT CHARGES-	Rs.	Ra,	Rs.	Es.	Rs.	R.,	R3.	Authority. Amount.
Works Establishment Tools and Plant Suspense Dalunco	0,60,515 87,201 670	1,25,470 21,011 1,717	7,80,107 1,13,115 2,367	10,19,539 8,45,259 22,538 -64,348	17,92,736 3,77,369 25,697	#0,117 14,001 • 6,051 —64,543	21,09,716 4,53,394 25,033 64,513	No. Date. Rs.
Total	7,51,522	1,53,167	9,04,619	20,52,3 (7	20,50,793	1,554	29,59,970	Tall
Less Receipts on Copital Account.	C2,616	***	63,516	1 110	***		C3,516	4
Net Total	6,67,903	1,53,107	۶,11,013	20,52,347	20,50,793	1,654	24,93,760	5 1368 16-10-03 5,51,092
INDIRECT GRAEGES-			•			•		W. I.
Capitalized abatement	67	8,250	8,307	***	•••	•••	8,307	C01359 15-D-16 21,848
of Lond Revenue. Leave and Peusion Allowances.	19,672	3,629	23,390	49,339	• *•	48,339	1 0000	5 } g{
Total	19,729	11,878	31,607	47,330		48,330	79,946	10257-10-15 1,82,553
Grand Total	7,07,635	1,64,065	8,72,620	21,00,686	20,50,793	-49,893	29,73,306	20,50,703

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-10.

		,	DIRECT CHARGE	:s.		
Heads of Account.			Imperial.		Cost of con-	
ZZZMUS OZ CALLVOJA		Provious.	1015-16.	Total.	struction as now estunated,	
ı.—works.		Rs,	Rs.	Rs.		
-Head Works-						•
A Preliminary Expenses	••	F,C20	55	8,284		1
B.—Land	••	87,622	373	87,095		
C.—Worl 9	•••	67,11,315	B,705	67,01,519]	
K.—Euildings	••	1,98,207	1,360	1,60,587		
O.—Miscellaneous		18,533	65	18,568	1 1	
P.—Maintonanco	••	1,35,313	••	1,35,343		
Q.—Losses on Stock	•••	•••	5,715	6,715		
Total		71,49,240	702	71,50,011		
MAIN CANAL AND BRANCHES-						
A.—Preliminary Expenses	•••	76,200	, 24	76,233		
RLand		9,63,413	4,75B	9,08,171		
D.—Regulators		6,50,055	38,858	6,88,914		
E.—Falls and Woirs	•••	0,52,356	2,820	9,50,027		
Æ. (1)-Other Cross Drainage Works	,.	22,61,058	8,304	22,09,422		
C.—Bridges		15,70,818	613	16,71,431		
K.—Buildings		8,12,209	21,161	8,33,366		
L.—Earth work		020,11,020	1,352	69,43,275		
Plantations 4		37,927	1,306	39,238		
" 'Miscollancour '		01,056	1,041	66,300		
" PMaintenanco		8,19,251	532	3,19,783		•
Q.—Losges on Stock	"	5,319	1,992	7,211		
TOTAL		1,46,55,101	78,173	1,47,33,369		
-Distributaries-	Î					
AProliminary Expenses		1,30,012	6,566	1,36,008		
B.—Land		4,10,350	1,31,576	5,41,635		
C.—Works	[10,14,173	2,07,336	13,41,812	1	
L,—Earth-work		15,04,582	2,16,734	17,21,315		
O.—Hiscollanoous"		1,42,492	• 74,203	2,16,785		
PMaintenanco		14,308	٥,	14,308		
TOTAL	·	82,40,256	7,26,508	39,72,764		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Chenab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

	מ	iRECT CHARGES			
Heads of Account.		Imperial.		Cost of con- struction rs now estimated	
· •	Previous.	1915-16,	Total.		
4. DHAINAGE AND PROTECTIVE WORKS-	5,084	100	6 171		
A.—Proliminary Expenses	93,509	, 190 8,247	6,174 1,92,116		
G.—Works	33,030	3,501	37,181		
L.—Earth-work	7,51,648	1,71,442	0,23,090		
C—Miscollaucous	17,036	26	17,002		
Torat	9,02,517	1,83,406	10,85,923		
TOTAL I.—WORKS	2,50,63,216	9,98,881	2,69,12,097	3,00,40,491	
II —ESTABLISHMENT.		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0,00,0,0,00	
5. Direction	10,10,403	47,586	10,57,989		••
6- Executive	27,03,023	2,02,161	29,80,384	i	١,
7. MEDICAL	.1,14,010	12,438	1,76,478	1	
S. SPECIAL SURVEY	82,573		82,573	İ	Ì
§1. Special Fiblo Survey	110	***	110		ļ
LEAVE AND PENSION ALLOWANCES		•••		<u> </u>	
Total	39,71,949	2,62,485	- , 42,33,534	42,67,174	
III.—TOOLS AND PLANT. 1. SCIENTIFIC INSTRUMENTS AND DRAWING MATERIALS.	,	. 272	. 272	1,5%	Í
2. PLANT AND MACEINERY		e,635	8,635	1, .	
3. Tools	• • •	1,323	1,323		
4. Navigation Plant		608.	. 606		
5. CAMP EQUIPAGE 🛶	•	28	28.		l
6. Live Stock	••	100	100		
7. Office Furnitume	***	975	975	1,11	
12. Miscrilandors	7,02,000	— G,535	6,95,165	} ``	
8. Repairs and Carbiage	1,10,054	11,830	1,21,020	, '	
II. RAILWAY PLANT AND ROLLING STOCK	8,65,370		8,55,370		
Total	16,67,424	17,270	16,84,594	20,66,018	
IV,—SUSPENSE ACCOUNT.	8,81,802	—74,648	2,07,154	. *****	
15. Stock Perchases	—3,035.	1,639	- 1,397		
15a. Stock Sales	213	1,082	1,295	ر مقد اد	
16. MISCELLANDOUS ADVANCES	6,148	2,003	4,145		
18. London Stores ,	4	***	••• 1		
· Total	8,85,427	— 73,930	8,11,497	3,00,000	,
GRAND TOTAL	3,21,77,116	11,94,706	3,36,71,822	3,66,74,583	,
.—LESS RECEIPTS ON CAPITAL ACCOUNT	47,071.	248	47,319	5,43,000	
Net Total	3,21,30,015	11,04,458	3,36,24,503	3,61,31,583	
APPORTIONMENT. 9—Inrigation Works	3,23,52,174 1,07,871	11,94,458	8,37,16,632 1,07,871		- * * ,

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Chenab Canal Project.

Ko 3-REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Imperial	•	·		[mperial.	
Receive:	Previous.	1915-1 6.	Total	: Ghanges,	Prbvious,	1915-16.	Total.
Occupiers' rates	Ra.	Ns. 9,27,058	Rs. 22,04,032		Rs.	Rs.	Rs.
_			. •	(LA.)—EXTENSIONS AND IMPROVEMENTS:	•	,	
Sales of water	426	259	0 85	(1)—Head Works (2)—Maix Oldal & Branchs- Total I. A.	7,21 J 1,52,188 1,59,309	9,523 98,383 1,08,006	16,834 2,50,571 2,67,405
Water supply of fowns		1,914	1,514	(I.B.)—MAINTENANCE	1,75,300	1,00,000	270.7300
				ezsow disH—.(!).	1,13,981	27,182	
Roccipts from Plantations	1,082	268	1,350	(2).—Main Oinal & Brancuss (3). —Distributaries	3,37,710 1,95,354		
			,	(4).—Daarnage Works	31,940		
Recripts from other Canal produce.	. 480		511	(I; C.)—COMPENSATION.	6,09,570	3,92,123	
		•		(II)—ESTABLISHMENT. (5).—Direction and Account		(b) 27,531	-
Rent of Buildings	12,659	5,027	17,680	(7A).—REVENUE DO	1,80,966 2,37,067	80,972 (a)1,11,110	
Arr.	, 1		•	Total (III).—TOOLS AND PLANT	3,04,979	2,50, 168	6,45,145
Finos	(, 1,132	1,236	2,000	(1.)—Scientific Instruments And Drawing Ma- terials.		, 4 <u>°</u>	4:
	2,30			(2).—PLANT AND MACHINERY (12).—MISCELLAREOUS	4,725	3,573 7.146	i
"		٠,٠		(13).—Repairs and Carriags	6,811	1,140	6,811 6,811
		÷		Total	11,530		22,296
Hiscollanoous and other Receipts	20 ,19 7	21,178	41,571	- (IV)←REFUNDS OF - REVENUE.	1;460	, 615	2,075
· · · · Total	13,14,397	9,56,571	22,71,268	Total	12,65,953	7,90,400	20,65,353
Interest on nale proceeds of waste lands benefited.	32,240	36,637	65,88	Indirect Charges debitable to Revenue Account as per Account No. 5	55,297	35,023	90,320
Share of land revenue.	1,75,416	, 24,110	1,40,856	TOTAL CHARGES	:,13,21,250	2,34,423	21,55,673
Collected in the Civil Department.	2,07,665	0!,077	2,68,712	Balanco, Kot Revonuo 📑	,2,00,812	1,83,525	7,94,337
***	15,22,062	10,17,949	25,40,010	CBAND TOTAL	15,22,062	10,17,948	25,10,010

⁽a). Includes Rs. 29,293 on account of fees for collection of Revenue.
(b). Excluding Accounts from 1012-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Chenab Canal Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1915-16.

•	Amount.		Amount,
Total Interest charges to end of 1914-15 Do. for the year 1915-16 Total outlay to end of ::1-3-16 Less \(\frac{1}{2} \) outlay during 1915-16 Meap Capital at chargo Interest at 3:4725 per cent,		Net Revenue realized to end of 1914-15 Do. during 1915-16 Balanco net Interest charges	Rq 2,00,912 1,53,525 09,04,331
Total	71,92,608	Total	71,88,668

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1015-10.

]	Provious.	1915-16.	Total.				
Capital-	سب والثاني سيده	سبح سبيب سبين			Rs.	Rs.	Rs.
Capitalization of obstement of	Land Revonue		***	•••	2,78,900	12,925	2,01,725
Leave and Pension Allowances	•	t••	•••	•••	5,18,617	36,745	5,95,365
Revenue-			Total	•••	8,27,517	49,573	8,77,000
DEVELOUE—	/	•					
Leave and Pension Allowances	*** * ***	•••	***		55,297	35,923	00,350
			Total		55,287	35,023	90,320

No. 6.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

		Cor	DENT SANCT	ions.	Total •	
Particulars.		Charges to date.	Amount of Sanctioned Estimato.	Unspent Balance of Estimate	doto ogainst old and current sanctions.	Remarks
DIRECT CHARGES—		Ry.	Rs.	- Rg.	Rs.	*
Works	•••	2,69,42,097	3,00,10,491	30,93,304	(
· Estoblishment	441	42,33,534	42,77,174	33,610	42,33,731	
Tools and Plant	•••	10,51,601	20,56,018	3,82,224	10,84,601	
Suspense Bolonces ***		8,11,497	3,00,000	 5,11,497	8,11;497	
Total	•••	3,36,71,522	3,66,74,593	30,02,761	3,36,71,829	
ese Receipts on Capital Account	••	47,310	5,13,000	· 4,95,681	47,319	
Net Total	•••	3,35,21,503	3,61,31,583	25,07,080	0,30,24,500	
Nonnect Charges— Capitalized abatement of Land Revenue	***	2,01,725	<i>5</i> ,16,668	2,21,910	, 2,01,725	
Leave and Ponsion Allowances	d er	C,95,365	7,08,773	1,23,405	5,85,365	
Total	***	8,77,000	12,25,441	3,48,351	8,77,090	
Grand Total	•••	3,45,711,593	3,73,57,024	28,55,431	3,45,01,593	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Bari Doab Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16. ,

•		D	inect Changes.			
HEADS OF ACCOUNT.	ĺ	Imperial,			· Cost of con- struction as now estimated.	
	ĺ	Provious.	1015-16,	Total.		
I.—WORKS.		Rs.	Rs.	R4.	Re.	· Rs.
A.—Proliminary Expenses		13,157	400	13,560		
BLand		2,21,135	1,056	2,22,100	1	
CWorks		44,52,361	1,23,674	45,70,031	i i	
KBuildings		1,53,438	142	1,33,581	1 1	
O.—Bliscellancous		21,600	92	21,701		
PMaiatenauco		75,706		78,700	۱ ،	
, Total		10,20,709	1,25,375,	50,46,172		
MIAR CANAL AND BRANCHES						
A Proluninary Expenses]	1,18,200	295	1,19,598		
BLand		51,700	—n,624	47,082		
D.—Regulators		1,27,702		1,27,702		
E Falls and Weirs		1,15,953		4,15,653	1	
FRiver and Hill Torrent Works		671		67)		
F. (1)Other Cross Drainage Works		4,55,017	1,598	4,54,145		
G.—Bridges		4,50,335	13,412	4,72,780		
H.—Lecapes		51,317	11,003	62,352		
K.—Buildings		0,73,830	57,815	10,11,015		
L.—Earthwork	}	33,35,122	, \	33,35,122		
M.—Ilaniations		02,345	23,330	1,15,676	,	
O,-Miscollanoous		70,750	3,100	70,860	• ·	
· PMainténanco		2,15,251	10,467	2,31,716] }	
Q.—Losses on Stock		377	26	401	1	
TOTAL		63,67,634	1,17,165	61,75,363		
Distributionies-	.]:					
A.—Proliminary Expenses		88,230	. 8,075	96,314		
BLund		1,48,701	-17,025	1,31,676	F 1	
CWorks		10,62,356	1,13,454	11,95,810	1	
L.—Earth-work		12,72,723	92,391	13,05,114		
O.—Miscellaneous		0,23,761	2,32,576	11,50,880		
P.—Maintonance		21,561	7,615	32,109		
TOTAL		35,10,317	4,37,016	39,77,362		
DEATHAGE AND PROTECTIVE WORKS.						
A.—Proliminary Exponsos	:.	4,174	1,261	5,739		
B.—Land			401	- 409		
C.—Works			750	720		
L.—Farth-work		2,022	6,510	8,541	i i	
O.—Miscollaneous		8,180	. 880	0,000	1	
- Total		14,676	9,793	21,160		
TOTAL IWORKS	٠ . ا	1,48,33,600	0,60,610	1,65,29,306	1	

IRRIGATION BRANCH.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Bari Doab Canal Project.

- No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

` .		Dr	REOT CHARGES.				
Heads of Account	ş.		Imperial.		Cost of con- struction as		
,		Provious.	1015-16.	Total.	now estimated.		
محمد عليه المحكودة المحمد المديني اليسنو المحمد (المحمد المحمد)		Rg.	Rs.	Re.	Rs.		
II—ESTABLISHME	NT.				,		
5. Direction and Accounts (a)	4,58,017	42,517	5,30,564			
6. EXECUTIVE	445	18,87,527	2,11,326	20,99,153			
7. Medical	***	60,302	12,164	92,570			
8. Special Survey	eil .	7,910	••	7,610			
2	Cotal	£4,63,075	2,66,057	27,30,133	35,49,734		
III.—TOOLS AND P	Lant.						
I. Sometific Instruments , Materials.	IND DRAWIN	a	671	671			
L PLAYES AND MACHINERY	•••		0,734	0,734			
. Tools	***		427	427	•		
I. Natioation Plant	140]	4,181	4,151	, ,		
i. Camp Equipade	***		c so	650	٠.		
i. Live Stook	*** .		***	114		•	
Office Fernmone	***		2,153	2,153			
L. Repairs and Carriage	***	89,926	13,998	1,03,92			
. Miscerlineous	41	6,40,276	-32,715	6,07,564			
O. RAILWAY PLANT AND BOLLE	NG BIOCE	7,53,454	•••	7,93,461		-	
	COTAL	18,13,056	008	17,12,95	17,15,905	****	
IV.—SUSPENSE ACCO	TAUCT.						
14 STOCE	***	10,07,140	-11,360	2,53,08		•	
5. STOCK PURCHASES	•1•	1,300	-1,179	-2,839			
15 (a), Stock Sales	***	327	386	713			
6. Misceli aneous Advances	••	3,307	-1,792	1,511		-	
17. London Invoices	• • •	1	411	-1]		
18, London Stores	***			114			
מ	COTAL	10,09,719	-47,246	9,02,409	3,00,000		
ORAND TO	TAL	1,99,21,105	9,07,791	2,07,20,900	2,10,51,940		
v.— <i>LESS</i> RECEIPTS ON CAPI	TAL ACCOUS	T 46,271	1 £, 685	01,933	2,82,000		
Ner 3	Forat.	1,97,71,831	8,92,13	2,06,66,90	2,16,69,940		
			•		-		
APPORTIONMEN	r.				1		
49-Innigation Works	***	1,90,07,710	8,92,133	2,01,09,443	1		
43.—M. W. and Navigation, Iup	'erial	. 1,67,521	'	1,67,521			

⁽a). Excluded share of account from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Bari Doab Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-10.

		lmperial,			Imperial.			
Receirs.	Provious	1915-16.	Total.	Charges.	Provious	1915-10.	Total.	
Occupiors' rates	Rs. 5,19,171	Ra.	Rs. 9,18,156	(I.A)—EXTENSIONS AND	Rs	Rs.	Ra,	
Offellion rates		,,,,,,,,	, , , ,	IMPROVEMENTS.		0.135	Ø 19#	
				1.—Head Wores 2.—Main Canals and Beardies		2,137 2,717	2,137 2,717	
						7,331	7,338	
				4.—Delinage and Protective Works.			***	
Balis of water	515	1,365	1 ³ ē3b	Total I.A		12,192	12,102	
				(1. B.)—MAINTENANCE AND REPAIRS.				
				I.—Head Wores	38,021	81,696	89,717	
				2.—Main Canal and Brancins	90,210	1,72,070	2 9,71,280	
				3.—Distributaries	1,33,737	1,51,560	3,18,297	
Receipts from Tiantations	2,423	1,108	3,591	4.—Dramage Works	0,691	974	7,585	
n other Canal produce	393	\$	200	Total I. D	2,77,859	4,99,300	6,80,859	
Rent of buildings	, 1	٠	3	(I.C)—COMPENSATION. (II),—ESTABLISHMENT.				
				(a) USECTION AND ACCOUNTS	12,625	24,877	97,502	
Fines	G2 s	440	1,064	6.—Exhqueive Establishmen	43,730	69,397 (b)	1,13,132	
and the state of				(7A.)-REVENUE Do	98,918		1,99,881	
,				Total "	1,54,573	1,05,91:	8,50,515	
•	٠٠.			III —TOOLS AND PLANT. 12.—Mrcellanboes	3,960	6,119	9,979	
Hiscollaneous and other Re-	10,387	2,999	13,256	Total	3,800	6,110	9,979	
ecipta.				iv.—Biferd of revenui v.—Profit and loss.		602	G62	
	٠.			Total	1,35,993	0,24,216	10,00,207	
, 4 v				Is direct Charges debitable to Berenus Account as per Account No. 5.	21,640	27,130	49,075	
Total ,.	5,33,670	4,35,173	0,66,72	i i	1 27 00			
filters of Lend Revenue collected in the Greil Department.	· · ·		•••	Halanco Not Possesse	1 00 04	07 (82	0: :::	
Interest on cale proceeds of waste land I encilled.	47,125	1,20,086	1,65,114	Balance, Net Rovenuo	1,23,010	—97,18S	25,559	
TOTAL RECEIPTS	5,80,676	G,51,159	11,34,537	· GRAND TOTAL	5,80,678	5,53,160	11,31,537	

⁽a). Excludes charo of accounts since 1912-13.
(b). Includes Rs. 12,103 on account of Lambardars' fees.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Bari Doab Canal Project.

No. 4.—INTEREST ACCOUNT FOR AND TO END OF 1915-16.

	ANOUNT	,	{	Аморит.
•	Rs.			Rs.
Total Interest charges to end of 1914-15	25,04,700	Net Bevenue realized to ond of 1914-15		1,23,048
Do. for the year 1915-16	1	Do. during 1915.		07,488
Total outlay to 31st March 1916 = Rs. 2,00,06,964		Balanco not Interest charges		31,81,409
Less 1 outlay during 1915-16 = , 4,46,066				
Mean espital at charge = ,, 2,02,20,898				 -
Interest at 3:4725	7,02,171			
Total	82,08,987	Total		32,08,967

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

· Particulars.			۸	Previous.	1915-16.	Total.	
CAPITAL-		,			Rs.	Rs.	Ba.
Capitalization of abatement of Land Rovenue	***	••	••	•••	42,150	1,600	43,750
Leave and Pension Allowances	•••	•••	•••	•••	3,31,030		3,71,278
7			Total	•••	3,76,180	38,848	4,15,028
Revenue— . ,			. ,				
Leave and Pension Allowances	••	•••	,	:	21,610	27,432	49,073
			Total		21,640	27,432	49,072

No. G.—STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMATE.

		Con	RENT SAKOTIO	ore.	Total	.+
, Particulais.		Charges to date.	Amount of Sanctioned Estimate	Unspent Balanco of Estimate.	charges to date against old and current sanctions.	REHABES.
		Rs.	Rs.	Rs.	Bs.	
DIRECT CHARGES—						
Works	••	1,55,23,806	1,63,56,298	8,62,992	1,65,23,306	·
Establishment	•••	27,30,133	35,19,734	8,19,601	27,30,133	iy.
Tools and Plant	••	15,12,958	17,15,908	2,02,920	15,12,088	Scorolary of dated 17th
Suspense Balance	•••	9,62,460	3,00,000	6,62,469	0,62,469	Z Z Z
Total .	•••	2,07,22,896	2,19,51,940	12,23,044	2,07,28,900	N.,
Less Recoipts on Capital Account	***	61,952	2,02,000	2,20,068	61,932	sanctioned i
Not Total	•••	2,00,06,981	2,16,69,940	10,02,976	2,06,66,964	No.
Indirect Charges-						,
Capitalized abatement of Land Revenue	••	43,750	1,47,500	1,03,750	± €3,750	atim spa
Leave and Pension Allowances	***	2,71,278	5,10,062	1,39,584	7,71,278	od o 's de 'n'y
Total	•••	. 6,15,028	6,58,462	2,43,484	4,15,026	Revised cetimate a State's desputch Rebruary 1911.
GRAND TOTAL	••	2,10,81,002	2,22,28,402	12,46,410	2,10,81,992	₩ E

. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Jhelum Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

•		. Dr					
Heads of Accounts.	Hilling of Accounts.					Cost of con struction a now estimated	
		-	Provious.	1915-16.	Total,		
	•		Rs.	Ra.	Rs.		
L-nores.			, ,				
1.—III.AD WORES—							
A Preliminary Expenses	444		7,3 10	,,,,	7,349		
Land	••		11,020		11,020)	
CWorks	•1•		1,818	4.1	1,918	l.	
KBuillings	•••	,	1,86,170	6	1,89,404		
O.—Miccellancou i	***		36,672	1,512	38,021		
P.—Maintenanco	***		14,274	718	14,972		
<u>, (</u>	Total		2,57,500	2,051	2,50,631	,	
**							
E.—Main Camal and Bringings—							
A Preliminary Expanso	444		1,10,010	1,053	1,11,065		
BLand	•••		e, 10,61 t	4,911	P,21,53S		
D.—Regulators	•••		27,78,908	5,32,594	37,18,102		
LFalls and Weira	***		1,55,006	- 4,232	1,62,239		
F River and Hill Torrent Works '	•••		1,30,69,589	40,390	1,31,09,078	-	
G.—Bridge	.··· ·	{	10,07,234	15,655	10,20,591		
H.—Eggapon	•••		2,30,213	19,59 \$	2,59,807		
K_Buildings	•••		5,70,119	77,031	6,46,050		
L.—Barth-worl	•••		1,01,01,720	4,26,174	1,95,90,501		
MI laufations	••		52,760	2,057	51,750		
OMicellancour	44.	·	51,758	2,020	60,075		
" PMainle ronon	••		3,07,551	90,255	9,07,912		
Q.—Lours on Stack	411		2,005	2,368	5,160		
e de la companya de l	Тотль		2,93,75,912	12,21,936	3,95,97,545		
3.—Deprimentanies—		İ		·	,		
. A.—Proliminary Exponeo	- ,		23,921	4,650	26,610		
R.—Land ,	414		E3,365	51,214	1,37,582	í	
O.—Work			52,376	2,21,707	2,77,092		
L.—Earth-work			66,203	2,00,150	2,00,053	1	
O.—Miscollaneouz	· ***		10,017	(a). 35,111	52,058		
	Toral :		. Philipsia	5,15,871	7,01,685		

⁽a). Includes Rs. 10,792 on account of outlay on settlem' works to be reserved.

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Jhelum Canal Project.

No. 2—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

	Di							
HEADS OF ACCOUNT.						Cost of con struction ar now estimat		
					Previous.	1915-16.	Total,	ed.
d. Drainage and Profesti	ve Works-	-		•	Rs.	Rs.	Rs.	R ₅ ,
A.—Preliminary Expense	. e		#14	•••	6,958	***	6,958	
OMiscellaneous	••	•••	••	•••		127	127	
:			Тотаб	•••	6,958	127	7,085	
Total I,—WORKS II,—CSTABLISHMENT,					2,98,85,974	17,30, 588	3,1 6,25,962	8,40,11,85
5. Direction and Account	,	***	••		8,50,787	48,705	F,90,592	
6. Executive	,	••	•••	***	31,42,005	2,39,261		
7. MEDICAL		141	•••	***	7,06,611	16,074		
	•		TOTAL		40,00,403	3,04,133	41,03,626	40,02,37
III.—TO	OLS AND	PLANT.					-	
l. Scientipio Instruments	and Deawi	no Mater	PLAI	***	•••	248	249	
PLANT AND MACHINERY	910	. 410	401		28,62,243	-1,054	28,31,1 59	
3, Tools	••	***	***			2,438	2,438	
. Navigation Plant	,	~	***			323	. 323	
5. Camp Equipage	**	m	••			455	450	
. Office Forniture	••	***	••			8,568	2,508	
R. Repairs and Carriage	***	***	••		1,38,743	6,706	1,45,539	
Miscellaneous	414	•••	••		15,32,235	62,060	14,70,175	
- -1			TOTAL		45,33,221	—5J,192	44,70,929	45,81,54
IV.—SUS	PENSE A	COUNT.			12,52,036	~~77,109	11,74,927	•
5. STOCK PURCHASES		•••	•••		-10,829	-5,358	-16,187	
ōa. Stock Siles	***		••		404	631	634	
7. Miscellaneous Advance	23	•			1,224	7,276	. 8,500	
7. LONDON INVOICES	.11	••	,			494	240 1	1
8. London Stores	•••	414	**		517	 517	•••	
			TOTAL		12,12,048	-75,074	11,67,874	6,00,00
		GRAND	TOTAL]	3,97,61,636	19,14,855	4,16,76,491	4,13,95,76
.—Less receipts on Ca	APITAL A	CCOUNT			75,301	0,594	95,105	11,55,18
		Ner	Тотав	[3,96,96,385	18,94,961	4,15,81,206	4,32,40,28
APPOR	FIONMENT					•		
. Sangation Works	***	•	4+4		3,96,19,387	18,94,961	4,15,14,348	
3-Minde Works and Navig	ation, Imp	ERIAL 1	••	•	60,018		66,048	

⁽a). Excludes share of account commencing from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Jhelum Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

•	Imperial.				Imperial,			
RECEIPTS.	Previous. 1915-16.		Total.	Cnangrs.	Previous.	1915-16.	Total.	
	Rg.	Rq.	II9.	(I.A.)—EXTENSIONS AND IMPROVEMENTS.		Rs.	Rs,	
;				2.—Main Canal Branches		20,225	20,225	
,				Total I. A	,	20,225	20,225	
				(I. B)—MAINTENANCE AND RUPAIRS,				
				I.—Head Works		10,660	10,000	
•,				2.—Main Canal and Brancues		[2,30,678	2,39,678	
en up and a service of the service o		·		TOTAL I. B		2,50,338	2,50,338	
				(II). ESTABIJSHMENT.	,	١-		
tont of Buildings		3,120	3,126	5.—Direction and Accounts (a)		8,440	8,440	
, , ,				6.—Enecutive Establishment.	7	44,254	44,25	
. 25	,			7A Revenue Do	,	0,634	0,63	
Hiscellaneous and other Recoipts	•	3,144	3,114	Total·		59,334	₫0,331	
				IIITOOLS AND PLANT.				
al restrict				J.—Too14		29	20	
भार <u>प्रस्तरपर्वतकातः</u> इ				7.—Office Funniture		71	7	
				Miscellandors	,	. 3,004	3,90	
, - ,	<i>:</i>			Total	••	3,916	3,91	
	,7 ***			iv.—refund of revenue		30	30	
			1	Тотац		3,33,873	3,33,57	
	,			Indirect Charges debitable to Revenue Account as por Ac- count No. 5.	,	8,307	8,30	
				Total Charges	: ::	3,42,180	3,42,18	
Total		6,204	6,26	Balanco, Not Revenue	٠.,	3,35,010	3,35,01	
Total Receives	•• .	6,264	. ` 0,20	GRAND TOTAL .	,	6,264	6,26	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Upper Jhelum Canal Project.

No. 4-INTEREST ACCOUNT FOR AND TO END OF 1915-16.

			Amo	unt.] `				Amount.
Total Interest charges Do. for Total outlay to 3 lst M Less half outlay during	tho year 1915 March 1916 =	-16 Rs. 4,15,8],	296	,18,174	l_	reveano realiza	d during 1915-18 t charges		Rs. —3,35,916 74,65,099
Mean capital at charg Interest at 8:4725 per		,, 4,06,33, ,, 14,11,		,11,009		1			
•		Total	71,	20,183				1	71,29,183
	No. 5—ACC	OUNT OF 12	NDIRECT O	HARG!	es fo	R AND TO E	XD OF 1915-1C.		
	Particul	lara.			Pı	revious.	1915-16.	7	Cotal.
CATITAL-			•			Rs.	Rs.		Rs.
Capitalization of	f abatement o	of Land Reve	nuo			1,62,125	6,200		1,68,325
Leavo and Pensi	ion Allowanc	es	••	,		5,68,019	42,579		6,11,498
			Total			7,31,011	48,770		7,79,82.1
Revence-			•						
Capitalization of	abatement of	Land Revon	uo	,					
Leave and Pensi	on Allowance	S	••	*			8,307		8,307
:			Total				8,307		8,307
•		GRAND	TOTAL			7,31,011	57,08 €	•	7,88,120
,	; Cra	erry Sancre). P. P. P. P. P. P. P. P. P. P. P. P. P. P	To	tal				
PARTICULARS.	Charges to date.	Amount of Senetioned	Unspent Balanco of	agring and cr			Remarks.		•
	,	Estimate.	Estimate.	sanct	10119.				. , '
	Rs.	R _S ,	Rs.	R	9.				
DIBECT CHARGES—	.,						•	ŧ	•
Works	3,16,25,962	3,40,11,855	29,65,693	3,16	,25,962		igures of sanctione	d] rst	imate for I-
Establishment	44,03,625	46,02,371	1,99,740	44	,03,520	the sancti	d II—Establishment ions shown in the in asier of Rs 100,000	st acc	ount are due
Tools and Plant	44,79,029	45,81,540	1,02,511	41	,70,029	J.\tablishi	ment of the Upper Of from Lower Bari	J helu	m Circle and
Suspenso Balances	11,67,874			 	67,871	liend I—V	Vorks of the Upper ent of India P. W.	Jhele	um Cucle vide
Total	4,16,76,197	4,13,95,766	27,19,27		,76,191	dated 9th	Juao 1915.	•	
Less Receipts on Capital Account.	95,195	11,55,48;	10,60,289		95,195				
Not Total	4,15,41,296	4,32,40,282	16,58,986	4,15	,51,206				
INDIRECT CHARGES—					,				
Capitalized abatement of Land Revenue.	1,69,325	1,10,945	-57,350	1	,98,323				
Leave and Pension Allowances.	6,11, 498	0,45,332	3, 33,534	c,	,11,198				
Total	7,79,523	10,56,277	2,76,451	7,	79,823				
GEIND TOTAL	4,23,61,119	4,42,96,550	19,35,140	1,23	61,110	<u>.</u>			12-

IRRIGATION BRANCH.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

.Shahpur Canal Project-Imperial.

No. 3-CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

		1	DIRECT CHARGE	78.	Cost of coa-	,
T			Imperial.		struction as now estimated (Construction	Expenditure
Heads of Account.		Provious.	1915-16.	Total.	Estimate closed on 31st March 1894).	Estimates.
I.—WORKS.		Rs.	Rr.	Rs.	Ra.	Re.
L-Main Canal and Branches-			1			1
BLand	••	3,025	z++	3,028		
D-Regulator		13,187	***	13,187		
GBridges	••	20,522	444	20,522		
L.—Earth-work	••	89,974	***	89,974		
TOTAL	.,	1,26,711	E71	1,26,711		,
.—Distributarics—						
B.—Land	٠.	8,219	•••	8,219		. *
CWorks		16,561	, 	18,561		
L.—Earth-work	••	21,500	•••	21,560		•
2 3						
TOTAL	••	49,949	***	49,349		• ;
Total I.—WORKS	••	1,75,000		1,75,060	1,75,060	1,75,060
· II.—ESTABLISHMENT.	ļ					
Direction.		7,518	•••	7,518	,	
EXECUTIVE:		11,712	***	2,712	•	•
Total		80,200	. **	30,260	30,260	30,260
III.—TOOLS AND PLANT.				,		
2. Miscellaneous		685	•••	, 585		
3. Replies And Carriage	•;	29	•••	25	,	•
Тотак		013	***	613	613	613
DRAND TOTAL	••	2,05,933	7	2,05,033	2,05,933	2,05,933
APPORTIONMENT.			•	····	iñ.	
9—Indigation Works		- 2,05,038	314	2,05,933	2,0.5,033	2,03,933

Note—Capital and Revenue accounts of these Canals will continue to be propared separately until the Shahpur Branch of the Lower Jhelum Canal has been constructed and opened for Irrigation, vide Secretary to Govt., Punjab, P. W. D. Irrigation Branch letter No. 086 A. I., dated 7-8-1995.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Shahpur Canal Project-Imperial.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1916-16.

,	 	IVPERIAL.		`		Imperial.	
RECEIPTS.	Previous	191 5 -16.	Total.	Charges.	Previous.	1915-16.	Total.
	Rs.	Ra.	Rs	(I.A.)—EXTENSIONS AND IMPROVEMENTS.	Rs.	Rs.	Rs.
Occupiers' rates	21,19,916	78,016	21,95,534	2.—Main Canal and Branches. 3.—Distributaries	82,23 <u>8</u> 14,365	 258	8 2,23 14,62
Sales of woter	1,301	- in	1,709 ,	Total I.A	96,603	258	96,86
Receipts from Plantations :	16,419	, 157	 10,576	'l.B.)—Maintenance and Repairs.		,	
Receipts from other Canal produce.	3,835	21	1	2—Main Canal and Branches 3.—Distributaries	г, 93,8 94 1,17,025	19,895 Б,262	8,13,789 1,22,28
	1,388		1,785	Total I.B.	7,10,019	25,157	7,36,07
· ·:				(I. C.)—COMPENSATION. (II.) ESTABLISHMENT	553		55
Fines	1,806	•••	1,560	5.—Direction and Account. 6.—Executive Catablisement.	67,813 } -	5,686	73,39
liscellaneous and other Receipts.	1,719		- 1,710	7.—Medical Do 7A.—Revenue Do 7B.—Navigation Do	4,53,484	(a) 18,512	4,71,99
			-	TOTAL	5,21,297	21,098	5,45,39
1				III.—TOOLS AND PLANT. 12.—Mi-cellaneous	3,109	t i	3,10
lotal	21,46,154	77.094	22,23,248	IJ.—Refairs and Carriage Total	2,012 5,121		9,01 5,12
				(V.)—REFUNDSOFREVENUE	- 1,233	·,	1,2:
there of Land Revenue col- lected in the Civil Depart- ment.	3, 27 , £15	15,107	3,42,322	Total Indirect Charges debitable to Revende Account as per Account No. 5.	13,35,726 74,452		13,85,25 77,85
Totol	3,27,216	15,107	3,12,522	TOTAL CHARGES	14,10,178 10,63,191		
. Total Receipts		02,201	25,65,570	-	24,73,359	 02,201	25,65,57

⁽a) Includes Rs. 2,312 on account of fees for collection of revenue.
(b) Excludes share of accounts commencing from 1912 13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Shahpur Canal Project--Imperial.

,		-			
Particulors.			Provious.	1915-16,	Total.
			Hs.	Rs.	Ra.
Capital—		- 1			5,638
Copitalization of abatement of Land Rovenue	••	*** {	5,6 16	***	•
Leave and Ponsion Allowances	• •••	-	4,343		4,34
•	Total		9,781		ρ,98
Revenue-		J.	1		
Inpitalization of abotement of Land Rovenue			011		94
Loave and Pension Allewances	**		73,508	3,374	76,88
	Total		74,452	3,374	77,82
Gran	d Total		81,433	3,374	87,80
No. 6-STATEMENT COMPANING	CHARGE	S TO D	ATE WITH SANGT	IONED ESTIMATI	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
CHARLES AGAINST CL	osed andcii	078	CURRENT S	Anctions.	
Transl.	T	-		Total	-

	CHARGES A	g linst closed	SECTIONS		Cure:nt	SANCTIONS		
Particulars.	Expond - turo ngainst Construc- tion Estimato	Expendituro ogainst open canol ranctions.	Tolal.	Chorgos to dato.	Amount of sonctioned Estimato.	Unapent Balance of Estimate.	Total clurges to dato against old and current sauctions.	Runares.
1	Rs.	Ra.	Ita,		Rs.	Rq.	Rs.	•
DIRECT CHARGES.								
Works	1,75,060		1,75,000	••		••	1,75,000	
Estoblishment	30,260		80,200	•• .		••	30,260	
Tools and Plants	613		613	••	••	••	613	
Total	2,05,933	.,	2,05,933			••	2,05,933	
Less-Receipts on Capital	P14	••		••	••	••		
Not Total'	* ***	••		•••	••			
Indirect Charges-	ŧ				,			
Capitalised abatement of Lond Berenue.	5,038	• • •	- 5,635	••			5,638	
Leove and Pension Allow- ances.	4,343		4,313		"		4,843	
, a] 							
Total	0,081		0,081	••	••	4.	9,081	
GRAND TOTAL	2,15,014	••	'2,1 <i>r</i> ,014	•		••	2,15,914	

OFFICE OF ACCOUNTANT-GENERAL. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ghaggar Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1915-16.

				Dire	CT CHA	roes.		·	
Heady of Account.		Imperial.		Con	ntributi	on.		Total.	
	Previous.	1916-16.	Total.	Provious.	1915.16.	Total.	Provious	1016-16.	Total
	Rs.	Ra.	Ra.	Ra.	Rs.	Re.	Rs.	Rs.	Rs.
'i.—Works.						,			
Head Works-									
B.—Land	432		432	253	•••	288	720	·	720
C.—Works	59,817	•••	50,817	39,878	•4•	39,878	99,695	,	09,695
K.—Buildings .		'	2,185	1,458	***	1,458	3,644	***	3,641
Total .	62,435		2,435	41,621	•	41,524	1,04,059		1,04,059
. Blain Canad and Branches	_								
A.—Preliminary Expense	7,569	•••	7,560	5,046		<i>5</i> ,016	12,615	,,, <i>→</i>	12,615
BLand	8,750		8,750	8,201		8,294	17,044		17,044
DRegulators	10,632		19,682	8,434	***	8,434	29,116	•••	28,116
E Falls and Weirs	.] 1,861		1,801	5,049	•••	5,049	6,910		6,910
GBridges · ·	24,078		21,076	27,000	***	27,699	\$1,775	,,	51,775
HEscapes .	13,188		13,188	ŏ,651	••	5,651	18,839	,	16,539
K.—Buildings	6,889	•••	7,889	15,385	•••	15,385	21,274	,	21,274
LEarth-work	. 77,205		77,205	1 10,109	•••	1,10,109	1,87,314	•••	1,67,314
O.—Miscellaneous	. 1,837	•••	1,837	2,588		2,588	4,425	, ,,,,	4,425 ·
Toril .	1,60,057		1,60,057	1,98,255	, 	1,89,255	3,48,312	••	3,48,312
. Distributables-							1		-
A.—Preliminary Expense	403		403	:			- 403	944	403
B.—Land	1	19	3,933				3,914	19	8,033
C.—Works			17,995				17,995	***	17,905
L.—Barth-work .	29,210	***	29,210				29,210	•••	29,210
O,-Miscollaneous .	. 14,783		14,783	8,745		8,745	23,529	•••	23,528
Total .	. 66,305	19	66,324	8,745		8,745	75,050	. 19	75,069

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ghaggar Canal Project.

No. 2.—CAPITAL ACCOUNT FOR AND TO END OF 1015-16.

	·			Direct	Спа	rois.	7	<u>:</u>	•	a now uetion 31st	perolo
	,	Imperial		Oon	tribu	tion.		Total	ļ.	(Construction sed on 31st	gainst o
Heads of Account.	Provious.	1013-16.	Total.	Provious.	1915216.	Total.	Provions	1915-16.	Total.	Cost of construction as estimated (Constructional Estimate olosed on March 1895.)	Expenditure against closed Estimates.
	Re.	Re.	Ra.	Rs.	Rs.	Rg.	Rs.	Rs.	Rs.	g.	Re,
4.—Drainage and Protective Works											
L.—Earth-work	5,501	•••	5,601				01	***	5,801		
· Total	5,601		δ,501			<i></i>	5,801		5,801		
Total I.—WORKS	2,04,108	19	2,03,617	2,39,521		2,34,621	5,33,222	19	5,33,241	1,33,241	5,33,241
					 	•					
6.—Direction and Account	13,614		(a) 13,614 43 625	8,453 30,392		8,153 30,392	22,067 71,020	•••	22,067 74,020		
7.—Menical	6,655		5,655				n,865		5,555		}
LEAVE AND PENSION ALLOWANCE				5,439		5,439	F,439	•••	5,439		-
TOTAL	62,797		62,797	14,284	 	44,284	1,07,081	·	1,07,081	1,07,081	1,07,081
No.											
III.—TOOLS AND PLANT.	7,923		7,923	2,534] 	2,534	1 ,457	••	10,457		
TOTAL	7,923		7,023	2,531		2,534	10,457	<u> </u>	10,157	10,457	10,457
GRAND TOTAL	3,05,318	10	3,05,337	2,85,442	-	2,85,442	6,50,760	19	6,50,770	6,50,779	6,50,770
v.— <i>Less</i> receipts on capital account.											
•											
NET TOTAL	3,65,318	19	3,05,837	2,85,442	=	2,85,442	3,50,760	10	0,50,770	8,50,779	0,50,779
APPORTIONMENT.			,								
43-M. W. AND NAVIGATION, IMPERIAL	3,65,318	19	3,65,987	2,85,442		2,85,442	6,60,760	19	H,50,779		

⁽a). Share of accounts excluded under Imperial from 1912-19.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ghaggar Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		·luperial		Con	TRIBUT	20h-		Total.	•
Rrc1 1978 •	Previous	1915-16	Total.	Provious.	1015-16.	Total.	Previous.	1915-16.	Total.
	R	Rs.	Rs.	Rs.	Rs.	Rs	Rs.	Rs.	Ra.
Occupiora' rates	99,957	17,61	1,17,495				99,957	17,638	1,17,495
		•		•			. ,	•	
Receipts from Plantation	2		:	2		2	4		å
	, 	•							
Receipts from other Caual produce.			••	1		1	1		· 1
:						i.			٠.,
Rent of Buildings	.231	2	23:	147	1	145	377	3	, 280
			:				·	ri	
Fincs	200	••	260	70	٠	70	. 930		330
			•				,		ŧ
Miscellaneous and other Receipts.	101		181	120	· 	120	, 301	****	201
				1,5		-			٠
Total	1,00,630	17,540	1,18,170	310	1	311	1,00,970	17,541	1,18,511
TOTAL RECEIPTS	1,00,630		1,18,170		1	341	1,00,970		1,18,511

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ghaggar Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		INPERI	A6.	_	C	ONTRIBI	TION.	T	Т	OTAL.	
CHARGES	Previous	1916-16.	Tota	al. Pri	vions	1916-16	lota	ıl. Provi	1	1915-16.	Total
LA.)—EXIENSIONS AND IMPROVEMENTS.	Rs.	Rq.	Rs		Rs.	R.	Re	Re	_	Rs.	, Rs.
1 —HEAD WORKS 2.—MAIN CANAL AND BRANCHE	€,⁻68 5,72£	, , ,	1	GF4	', C: 9	! 74,	5,4	11. 13,	237	1,866	15,1
2.—Distribitanies		1,78	7,	146	1,3 1	-47	2,3	· 6,	n50	2,235	
4.—DRAIN OF AND PROTECTIVE WORKS.	., 60 25, 60	••	1	ī	,		••	ь,	.00	-,250	8,8 3,6(
TOTAL 1. A.			'	5(3)	•				80 .	.	, so
(1, 4.)—MAINTENANCE AND REPAIRS.	18,207	2,90	21,2	05	0,000	1,103	7,1	21,	.07	,101	28,39
1.—HPAD WORKS				1			•	1.			
2MAIN CANAL AND BRANCH!	27,75	1,904 4,953		- 1	,50	1,209	19,81	6 46,2	65 · 3	273	49,53
3 - Dieti ieotaries	22,107	4,720	0,1,	1	- 1	1,239	60,10	6 1,52,41	!	192	1,58,595
4.—DRAINAGE WORLS	832	*, · •.·	20,5	1	160		16	22,36	6 4,	726	27,092
TOTAL I. B.	_		83	-		.	••	83	2		882
(I. C.)—COMPENSATION	1,44,723	11,043	1 /5,96	77,	542 :	2,-40	80,090	2,21,80	3 14,1	191	-
(IL)—ESTABLISHMENT.	10,95's	<u> </u>	10 009					10,90	<u> </u>	-	2,35,054
5DIRECTION AND ACCOUNT (a)	46,202				7					-	10,008
(6)-Executive Co-	1,55,867	3,519	50,081	4, 2	77	222	4,499	50,539	4,0	41	E
(7)MITDICAL : Do	6,302	14,372	1,72,731	15,1	79	627	16,108	1,73 846			54,580
(7.A.)-Revenue Do	10		0,301	***	.	.		8,302		1	.88,845
(7.D.)—LEAVE AND PENSION ALLOWANCES.	110,31110	(b) 527	1,03,997	••	•	•		1,03,470		27 1	6, 3 02 ,03,997
Torak		•••		2,71	3	119	2,882	2,763	11	7	
(III.)-TOOLS AND PLANT	,14,401	18,718	3,33,119	22,51	9	30	23.487			. L_	2,882
2.—MINGELLAN ROUS				<u> </u>	-	<u>-</u>	.	3,36,920	19,68	6 3,	56,606
3 -REPAIRS AND CARRIAGE	-666	-26	- L92		1	-					
TOTAL	3,358	140 ;	3,507	1,67	2	5.5	1,727	4,361	170	8	4,542
V.—REFUNDS OF REVENUE	2 012	1:3	2,813	1,67		55	1,727	4,361	178		-
TOTAL OF DE SEVENUE	2,432	- .	2,43:	20			20				4,542
TOTAL 4,1	3,051 3	3,392 6	,20,143	10775		_	. 20	2,455	***	:	2,452
direct Charges debitable to Revenue Account as per Account No. 5.			10,637	1,07,753		-		1.0801	38,156	6,38	3,960
TOTAL					••		_	44,016	2,021	46	,637
ance Not Revenue -4,3	[],437 — 18,	1 '''		1,07,753	4,764	1 -,	2,517	,41,820	40,777	0,85	.597
GRAND Tones &			54,910 —	1,07,413	-1,763	-1,1	2,170 -	,43,850	-23,236	5 ,67,	
(a). Share of account excluded un (b). Includes Rs. 527 as fee for c	1		18,170	340	1		341 1	,00,970	17,541	1, 18,	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ghaggar Canal Project .

No. 5.—ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-15.

Perticulors		Previous.	1915-16.	Total.
Capital-		Rs.	Rs.	R _b .
Capitalization of abetement of Lond Revenue		2,000		2,000
(Imperial		8,792		8,792
Leave and Pension Allowances Contribution	••	5,430		. 5,439
Total		10,231		16,231
Deduct—Leave and Ponsian Allowances debitable to Bike treated as direct charge transformed to Account the canal.		5,430		5,439
Not dobitable to Imperial		10,792		10,792
Capitalization of abatement of Land Revenue				· ••
Leave and Ponsion Allowances		44,016	2,621	46,637
Contribution		2,763	1 19	2,882
Total		46,778	2,740	49,519
Deduct—Loave and Ponsion Allowances debitable to Bikar treated as direct charge and transferred to No. 7 of the canal		2,763	119	2,892
Total		44,016	2,621	48,637

' No 6.-STATEMENT COMPARING CHARGES TO DATE WITH SANCTIONED ESTIMALE.

34 · r .	CHARG	es against Sanctions.		Cur	RENT SANC	TIONS.	Total	
Particulars.	Expondi- ture ogenest Construc- tion Estimete	Expondi- ture egainst opon canel sanctions.	Totel	Charges to date.	Amount of Sanctioned I stimate.	Balance of	charges to deto against old and current sanctions	Remarks.
**	Rs.	Rs.	Rs.	Rs.	Rg.	Rs.	Rs	··
DIRECT CHARGES-]				•		;	•
Works	4,99 214	35,027	5,33,24)	••			5,33,241	
Establishment	1,00,970	6,111	1,07,081	••	}		1,07,081	
Tools and Plant	10,048	400	10,457	• •			10,457	
. Total	6,09,233	41,547	6,50,779	••		•	6,50,779	
Less Receipts on Capital Account.								
Net Total	8,00,232	41,547	6,50 776	 -		•••	6,50,779	
INDIRECT CHARGES—								
Cepitehzod ebatement of Land Revenue.	1,900	100	2,600		•		2,000	
Leeve and Pension Allow- ances.	7,968	824	. 8,792			. :"	8,792	
Total	9 868	924	, 10,705				10,792	
GRAND TOTAL	6,19,100	42,471	6,61,571				6,61,671	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Sutlej Inundation Canals including Hajiwah Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Infental.	,	·	-	Imperial.	
RECEIPTS.	Previous.	1915-16.	Tols1.	Charges.	Previous.	1915-10.	Total.
	Rs.	Rs.	Rs.	(I. A.)—EXTENSIONS AND IMPROVEMENTS.	Rs.	Rs.	Rs.
			,	2.—MAIN CANAL AND BRANCHE	7,70,980	52,295	8,29,281
Occupiers' rate	20,07,287	3,06,519	33,05,601	3.—Distributaries i.—Dpat-age and Protectifi Nolks.	1,36,895 5,688		1,38,627 5,688
Salaz of water	2,265	193	2,458	Total I, A	9,10,569	54,227	0,73,796
				T.B.)—MAINTENANCE AND REPAIRS. 2.Nain Canal and Branches		99,151	27,11,755
Tieceipts from Plantstions	63,230	1,412	64,612	i.—Distributaries	1,37,547	12,384	1,19,931
Receipts from other Canal	•••		33,288	I.—DRAINAGE WORKS	3,540 27,53,691	1,11,535	3,540 28,65,226
biogace	\$3, 802	6	00%00	LC.—COMPENSATION (II) ESTABLISHMENT.	4,001		4,094
Rest of Buildings)			7.—Direction and Account. 7.—Executive Fstablishment. 7.—Medical Do	4,67,946 14,46,201 23,145 3,98,761	60,309 1,561	4,80,476 15,06,510 21,709 (a)1,28,570
Fines	52,031	2,270	54,303	TOTAL III.—TOOLS AND PLANT. 1.—Scringfic Instituters AND Drawing Materials.	23,36,05	1,04,218	24,40,274
Miscell-neous and other	j			2.—Plant and Machinery 3.—Topls 1.—Navigation Plant 1.—Camp Equipage 1.—Live Stock		10S 32	108 32
··				7.—Optice Furniture 3.—Repairs and Carriace Miscullaneous	16,205 27,137	1,022 293	33 17,287 27,432
Total	31,50,613	3,10,102	31,61,015	Total	43,402	1,490	44,802
, f				IV.—REFUNDS OF RE- VI:NUE. V.—PROFIT AND LOSS	3,198		3,318 348
Contribution .,	12,45,539	••	12,45,830	Merchaneous Advances Stock Stock purchases	-1 +23,501 -98		+38 +22,761 +1
Chher Labour	39,21,410	,	30,24,410	Stock Sales	+23,407		+22,800
ሉ #				Total	00,83,755	ļ	63,51,748
Sharo of Land Revenue vollected io the Civil Dopartment.	88,38,531	3,11,338	01,40,870	Cliber Labour	39,24,410		30,24,410
k W.	;	•	.:	Indirect Charges dabitable to Revenue Account as per Account No. 5.			1,02,79,158 8,71,739
				Total Charges	1,03,68,813	2,85,584	1,66,53,897
Total Receives	1,71,59,390	6,21,740	1,77,81,136	Balanco, Net Revenue	67.01,08	-	71,27,230
٠. ١	,			GRAND TOTAL	1,71,59,39	6,21,740	1,77,81,130

⁽a) Includes Rg. 8,914 on account of fees for collection of revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Sutlej Inundation Canals including Hajiwah Canal Project.

No. 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Particulars.		Previous.	1915-16.	Total.
		Rs.	Rs.	Rs.
Revenue—				
Capitalization of abatement of Land Revenue	ęn.)	5	. .	5
Leave and Pension Allowances		3,60,143	14,591	3,74,784
•		,	:	,
Total		3,60,148	14,591	3,74,739
•		-		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Lower Sutley Inundation Canals Hajiwah Canal Project.

No. 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Imperial,		,		Imperial.	
Prenies.	Previous.	1612-16.	Total.	Charges,	Provious.	1915-16.	Totalı
*	Its.	Rg.	Rs.		Ro.	Rs.	Rs.
		•		(I. A.)—EXTENSIONS AND IMPROVEMENTS.			
Occupiers' raids ••	4,51,186	31,428	4,0*,621		32,956 15	-	35,750
				8.—DIMINITARIES		•••	15
				Total I. A	32,970	2,795	35,765
Sales of water	11	••	11	(LR)—MAINTPNANCE AND REPAIRS.	 		
				2-Mary Canal & Branches.	2,41,219	20,532	2,61,751
Receipts from Plantations	157	••	157	3.—Digr.mutaniej	12	••	12
Receipts from other Canal	3	••	 %'	Total I. B.	2,41,261	20,532	2,61,793
produce.				(I.C.) COMPENSATION			1
•				(II)—ESTABLISHMENT.		ľ	
Hi mlinnous and eiler Rocupts.	Şί	••	or	5. —Direction and Account	(&) 20,00k		20,008
,				 ⁶	67,122	9,037	76,210
•				(7 A).—Ruirsun Do	31,782	(a) 3,371·	35,161
. 1		- 9		TOTAL	1,28,412	12,176	1,11,369
		74.405		(III).—TOOLS AND PLANT		•	
. Total	4,/31,489	31,126	4,95,917	(12),—MISCREI AND CARRIAGE (12),—REPAIRS AND CARRIAGE	} 2,455	219	2,674
				Total	2,455	219	2,074
				(17).—REPÓNDS OF REVE- NUE.	920	••	620
,	ļ	1		(V.)—PROFIT AND LOSS.			
		25.000	4 5 4 4 5	Toral	1,08,218	30,022	4,12,210
Sharo of lead revenue collected in the Civil Department.	4,39,306	35,341	4.73,687	Indirect charges debitable to Revenus Account as per Account No. 5.	15,017	1,747	19,794
Interest on sale proceeds of waste lands benefited				Total Charges	4,21,265	37,769	4,62,034
	4,79,706	35,351	4,71,057	Balanco Not Revenue	4,70,830	32,010	5,03,570
TOTAL RECEIPTS .,	0,00,705	69,509	0,70,00.	GRAND TOTAL	9,00,792	09,809	0,70,001

⁽a). Includes Rs. 1,032 on account of fees paid for collection of revenue.
(b). Excludes Accounts commencing from 1912-13,

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16. Lower Sutley Inundation Ganals Hajiwah Canal Project.

No. 5,-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Particulars.		į	Previous.	191 5- 16.	Total,
			Rs.	Rs.	Rs.
		:		•	
1					
REVENUE-					
			,		
				,	
			,	~	•
		-			2000
cave and Pension Allowances	***	••	18,047 -	• 1,747	19,79
				,	•
	•	`			
	Total	,	18,047	1,747	19,794
	` **				
, ,					

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Chenab Inundation Canals Project.

No. 3.-REVENUE ACCOUNT FOR AND TO END OF 1015-16.

				•			
		Imperial.	•			Imperial.	
RECEIPTS.	Previous.	1915-16.	Total	Charges.	Provious.	1915-16.	Total.
	Ra.	Rq.	Rs.	I.A.)—EXTENSIONS AND IMPROVEMENTS,	Rs.	Rs.	Rø.
Occupiors' rates	24,76,085	2,04,177	26,10,202	Lill ROVEMBA 12,			,
				(2).—Main Canal & Branches	8,85,012	3,858	8,88,900
				i).—Distrinutaries	1,33,643	7,356	1,40,090
Falm of water	3,369	130	3,503	4).—Drainage and Profes- sire Works.	25,101	000	25,101
				TOTAL I. A	10,43,786	11.214	10,55,000
Receipts from Plantations	00,850	1,832	92,701	LB.)—MAINTENANCE AND REPAIRS.			•
				2) Main Cinil & Branches	30,67,282	09,888	31,67,170
Hereights from other Canal	42,105	208	42,316	(1).—Distributantes	1,20,031	5,250	1,25,281
produce.	32,107	200	32,010	4.—DRAINAGE WORES	06,993	750	91,749
Rent of Buildings	1,038	35~	1,39:	TOTAL I. B.	32,78,300	1,05,804	33,81,200
	,,,,	3,	2,74.	1. C.—COMPENSATION	1,932	911	1,932
Fine;	30,727	165	29,788	ii. Istablisiiment.			-
•				'5) —Direction and Account	5,00,595	(b) 11,218	5,11,813
Hiscollaneous and other necoupts.	2,560	256	2,622	(M.—1'vi criive Establishment 7).—Mi dical Do 7 (A.)—Revinue Do	} 16,01,813	(a) 36,390	16,41, 212
				Total	21,65,408	47,617	21,53,020
Total ···	20,15,361	2,07,135	24,22,796	•		`	
		2,01,100		(III), TOOLS AND PLANT			
				(12)—Miecellaneous (8).—Repairband Carriage	30,485	526	81,014
Contribution	11,47,506	••	11,17,500				
				. Total	30,184	524	31,014
Chher Labour	21,08,114	**	24,08,114	ivrefunds of revenue	9,095	261	0,356
				v.—profit and lo ss	425		425
mai-1	61 70 601	0.07.47	69 70 114	Total	64,02,440	1,65,612	66,31,052
Total	01'\0'881	2,07,435	03,18,110	Onura Laboua	21,08,114		24,08,114
				Total	89,77,654	1,65,512	00,13,006
Phare of Land Revenue rel lected in the Cred Depart	93,66,128	2,64,100	90,30,318				
ment.				indirent Charges debitable to Revenue Accounts as per Account No. &	3,14,213	7,011	3,51,254
				Total Charons	02,21,767	1,72,653	03,01,320
Total Receipts	1,55,37,100	4,71,625	1,60,08,731	Balanco Not Borenuo	03,15,342	2,09,072	06,11,414
	,	,,	, , ,	GRAND TOTAL	1,66,37,109	4,71,625	1,60,08,734

⁽a). Includer Rs. 5,300 on account of fees for collection of Revenue, (b). Lucludes accounts commencing from 1912-13.

IRRIGATION BRANCH. OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Chenab Inundation Canals Project.

No. 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-18.

Particulars.			Provique.	1915-16.	Total.
			Rs.	R ₃ ,	Re,
•					
rvende—		Ì			
ı					
, pitalization of abatoment of Land Revenue			8 161	275	B,63
blessuriou or engromous or rigid Resonns	• ••	***	8 ₁ 161	, 270	,,
1				-	•
	•				
			1	•	•
pare and Pension Alloweness	• •••		3,36,052	6,666	3,42,71
			•	4	
				•	
	Total		3,44,213	7,011	3,51,25
				-	

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Muzaffargarh Inundation Canals Project.

No 3.—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

· ·		IMP: RISL]	}	Imperial.	
	<u> </u>	AMERICA SE	T	,	}	191 PERIAL.	1
. Receipts.	,			CHARGES.			
	Provious.	1915-16.	Total.		Previous.	1916-16.	Total.
	Rs.	Rs.	Rg.		Rs.	Rs.	Rs.
Creatiois, 1540	28,79,336	2,67,240	31,46,68	II. A)EXTENSIONS AND INPROVENENTS. 2.—Main Clar and	7,06,988	0,615	7,18,50)
Eales of water	1,625	,	1,575	BLANCHI 3 — DISTRIBUTARIUS 4 — I I ANAGI AND PROTECTOR WOLLS	84,77 <i>C</i> 20,430		
	,,,,	•		TOTAL I. A	8,14,194	24,170	8,38,364
				(I B.)—VAINTEN ANCE AND REP URS.			
Roccipts from Plantations	1,10,510	5,820	1,16,675	2Main Canad and Dranchis.	26,07,330	1,58,396	28,55,726
		·		3—Distributarins 4.—Drainage Works	2,36,543 33,817	5,061	
				TOTAL I, B.	29,67,690	1,96,207	31,63,897
Records from other Canal produce.	6,721	577	7,205	(I. C.)—COUPENSATION.			
}				II —ESTABLISHMENT. 5 —Direction and Ao-	7,682	(1) 00 500	7,632
				COUNT. 6 Lai cutive Establish-	13,39,012	(b) 22,502 66,871	
				VENT. (7 A)—REVENUE Do	,	(a) 36,197	6,69,891
Finet	20,715	99	20,783	Total	25,62,686	1,25,660	
•	1	•		III.—TOOLS AND PLANT.			
Musclinuous and other Re-	5, 510	2,205	7,716	1.—Scientific Instruments 2,—Plant and Machinery 3.—Cools		110 078	119 978
celpts.	1			4.—Valigation 5 —Camp Equipage	,,,	••• 11	" 11
	- 1			0—Live Stock 7.—Office Furniture	110	220	220
,				8—Repairs and Carriagd 12.—Miscellaneous	18,476 36,873	1,408 643	19,884 37,016
Total	30,24,756	2,75,929	33,00,685	- TOTAL	51,819	3,370	58,228
				IV —REFUNDS OF RE- VENUE.	1,131		1,131
Contribution				VPROFIT AND LOSS.	4	•••	ď
Contribution 111 00	8,01,279	•••	8,01,270	SU-PENSE ACCOUNT.			
				Miscollaneous advances	55,086	71 9,388	71 46,288
Chhor labour i	24,34,233		24,34,233	Stock siles Stock purchases London stores	13	 14	27
	1			Total	55,673		46,342
Total	00.00.000	0.75.000		Chhor labour	24,34,233	,,,	21,34,233
1000	02,60,268	2,75,929	65,30,197	TOTAL	89,08,002	3,10,096	
Sharo of Land Rovenuo col- lected in the Civil Depart-	02,52,485	3,70,281	1,06,22,769	Indirect Charges debitable to Revenue Account as per Account No. 5.	3,78,060	17,892	8,95,95 2
ment.				TOTAL CHARGES	92,78,152	3,07,977	96,31,129
-				Balanco, Not Revonuq	72,30,601	2,88,2 ,6	75,21,837
TOTAL RECEITTS 1,	,65,12,753	6,46,213	1,71,88,98(GRAND TOTAL	1,65,12,757	6,16,213	1,71,58,966

[[]a].—Includes Rs. 7,998 on account of fees for collection of revenue, [9].—Excludes accounts from 1912-13.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Muzaffargarh Inundation Canals Project.

No. 5.-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Perticulare.		Previous.	1916-16.	Total
		Rs.	Rs.	Re. ,
Revenus—	•			
Capitolization of abatement of Land Revenue	· · · · · · · · · · · · · · · · · · ·	15,055	300	18,355
Leave and Pension Allowances	979. tar 9.0 911	3,60,005	17,502	3,77,597
	Total	4 70 000	17.00	
	Total	3,78,050	17,892	3,95,952

IRRIGATION BRANCH.

OFFICE OF ACCOUNTANT-GENERAL.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Shahpur Canal Project-Provincial.

No. 8—REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Provincia	Ľ,	,	<u> </u>	Imperial.	
Receipts.	Previous.	1915-18,	Total.	Charges.	Provious.	1915-1 G.	Total.
A1	Rs.	Rs.	Rs.	(1 A.)—EXTENSIONS AND, IMPROVEMENTS.	Rs.	Rs.	Ra.
				2,-Main Canal and Branches		••	33,583
Occupierr' rates	F,19,200	29,277	8,48,477	3—Distributaries	11,487	• •	11,487
				A.J JACOT	45,070		45,070
Sales of water	6,923	(n)0	1 -400	(I, B.)—MAINTENANCE AND REPAIRS.			
·	,,,,,		7,423	2.—Maiy Canal and Branches	2,24,766	14,041	2,30,607
,				3.—Distributarios	62,053	5,288	07,851
Receipts from Plantations	F,109	••	#,10s	Total	2,56,829	19,329	3,06,158
**				(I.C.)—COMPENSATION	62	***	62
Receipts from other Canal produce.	466	2.0	400	ii.—Establishment ,			,
Water power	928		926	5-Direction and Accounts	46,596	4,745	51,341
Fines	713		713	6—Executive Patablishment 7.—Medical Do 7.A.—Revenue Do	3,10,140	(b) 14,223	2,21,363
		İ	710	Total	3,56,736	18,969	3,75,701
***				III.—TOOLS AND PLANT ',,			
Miscollaneous and Lother Receipts.	3,603		3,003	12.—Mischilanbous	1,437	•••	1,437
				13.—Retains and Carriage	1,093		1,093
•				Total	3,130		3,130
m-A-1							
Total	8,35,923	29,902	8,66,830	V.—PROFIT AND LOSS	610	·	616
•				. Tolni	6,92,443	38,297	7,30,740
Share of Land Revenue collected in the Civil De- partment.	1,08,747	0,457	1,75,204	Indirect Charges debitable to Revenue Account as per Account No. 5.	51,434	2,656	54,280
			·	Total Chanors Bulanco Net Revenue "	7,44,077 2,61,598	40,963 —4,583	7,85,030 2,67,004
			.		-, -,,,,,,,		-,-,,002
Toyal Receives	10,05,675	30,359	10,42,034	GRAND TOTAL.	10,01,875	36,359	10,42,034

⁽a). Excludes share of necounts commencing from 1912-13.

[b). Includes Re. 783 on account of four for collection of revenue.

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Shahpur Canal Project-Provincial.

. No. 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

Particulars.			Previous.	1915-16.	Total.
,			Rs.	Rs.	Rs.
Revenue—					•
Capitalization of abatement of Land Revenue		••	`1,693		1,693
			,		
Leave and Pension Allowances	••		49,941	2,656	<i>5</i> 2,597
	•		ı		
	Total	••	,51,634	2,656	54,290
-					

ADMINISTRATIVE, ACCOUNTS FOR THE YEAR 1915-16.

Ravi Inundation Canals Project.

No. 3-REVENUE ACCOUNT FOR AND TO END OF 1915-16.

		Imperial.			:	Inperial.	١
Receipté.	Previous	1915.16.	Total.	Cearges	Provious.	1917-16.	Total.
Occupiers' rates	Rs.	Rs. 382	Rs. 1,05,273	(I-A.) EXTENSIONS AND IM- PROVEMENTS.	Rs.	Rs.	Rs.
Occapions twice	104,00	202	2,00,	(2)—Main Canal & Branone":	200		500
				Total I. A	500		400
Bales of water	207	+11	207	(I.B.)—MAINTENANCE AND REPAIRS.			٠.
				(2),—Main Canal & Branches	89,597	-	
•				3.—Distributariis	9,522	.]	9,522
Fines	36		30	TOTAL L. B	99,110		99,11
rues (**	30	•	"	I C.—COMPENSATION	31		3
				ii.—LSTADLISHMENT.			
•				(G).—Direction and Account	(a) 17,855	2,088	19,94
Miscollaneous and other Roccipts.	8	•••		G — EXPEDITY ESTABLISHMENT /7].—MEDICAL Do. 7(A.)—PLYENCE Do.	1,15,051	(b) 2	1,15,05
.,•				Total II	1,82,9 %	2,090	1,34,99
				(III). TOOLS AND PLANT			
Total	1,05,232	385	1,05,51	(12),—Miscellaneous	1,722		1,72
1			 -	(13).—REPAIRS AND CARRIAGE	915		, 91
				TOTAL	2,637	;; <u> </u>	2,6
				IV.—REPUNDS OF RLVENUE,	1,000		1,0
Share of Land Revenue col	1,25,475	} 888		TOTAL	2,36,202	2,090	2,38,20
lected in the Civil Department.	1 11209440	080	1,20,36	Indirect Chargos debitable to Reverue Accounts as per Account No 5.	18,006	, 293	16,89
				TOTAL CHAROLS	2,54,808	2,383	2,57,19
				Balanco, Not Rovenue	-24,101	—1,113	2 5,21
Total Receipts	2,30,707	1,270	2,31,977	GRAND TOTAL	2,30,707	1,270	2,31,07

⁽a). Share of Account excluded from 1912-13, (b). Includes Rs. 2 on account of fees for collection of revenue.

. ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1915-16.

Ravi Inundation Canals Project.

No 5-ACCOUNT OF INDIRECT CHARGES FOR AND TO END OF 1915-16.

NO DESCRIPTION OF INDIRECT C	MARGES FOR AND TO END OF 1915-16.			
Particulars.	Previous.	1915-16,	Total.	
,	Rs.	Rs.	Rs.	
REVENUE-				
. 10				
•	. ,	•		
Leave and Pension Allowances	18,606	293	18,899	
		•		
•	, a			
	•			
-				
Total 🕺	. 18,606	593	18,899	
	. •		•	